informatics inc

12 1

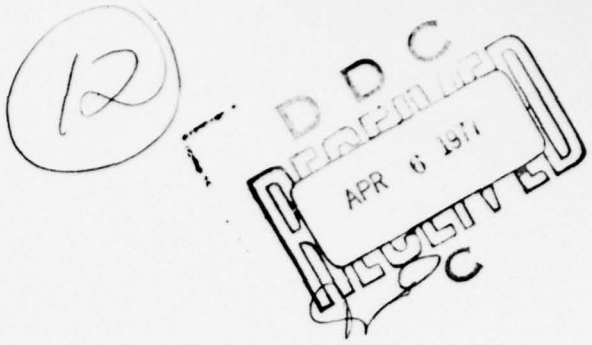
AD A037817

COPY AVAILABLE TO DDC DOES NOT
PERMIT FULLY LEGIBLE PRODUCTION

DDC
RECEIVED
APR 6 1977
C

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

AD No.
DDC FILE COPY



BIBLIOGRAPHY OF SOVIET LASER DEVELOPMENTS

No. 24, April - June 1976

Sponsored By

Defense Advanced
Research Projects Agency

DARPA Order No. 3097, Amendment 2

January 31, 1977

DARPA Order No. 3097, Amendment 2
Program Code No. 7L10, Program Element Code 62711E
Name of Contractor:
Informatics Inc.
Effective Date of Contract:
January 3, 1977
Contract Expiration Date:
March 31, 1977
Amount of Contract: $59, 790

Contract No. MDA-903-77C-0153
Principal Investigator:
Stuart G. Hibben
Tel: (301) 770-3000
Program Manager:
Ruth Ness
Tel: (301) 770-3000
Short Title of Work:
"Soviet Lasers"

This research was supported by the Defense Advanced Research Projects Agency and was monitored by the Defense Supply Service - Washington, under Contract No. MDA-903-77C-0153. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either express or implied, of the Defense Advanced Research Projects Agency or the United States Government.

informatics inc
6000 Executive Boulevard
Rockville, Maryland 20852
(301) 770-3000

Approved for public release; distribution unlimited

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE *(and Subtitle)* BIBLIOGRAPHY OF SOVIET LASER DEVELOPMENTS, No. 24, APRIL - JUNE 1976		5. TYPE OF REPORT & PERIOD COVERED Scientific ... Interim 6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Stuart G. Hibben, Carl Minkus		8. CONTRACT OR GRANT NUMBER(s) MDA-903-77C-0153 DARPA Order-3097
9. PERFORMING ORGANIZATION NAME AND ADDRESS Informatics Inc. 6000 Executive Boulevard Rockville, Maryland 20852		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS DARPA Order No. 3097, Amdt. 2. Program Code No. 7L10, Prog. El. Code 62711E
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency/TAO 1400 Wilson Boulevard Arlington, Virginia 22209		12. REPORT DATE January 31, 1977 13. NUMBER OF PAGES 131
14. MONITORING AGENCY NAME & ADDRESS*(if different from Controlling Office)* Defense Supply Service - Washington Room 1D245, Pentagon Washington, D.C. 20310		15. SECURITY CLASS. *(of this report)* UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT *(of this Report)* Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, if different from Report)*		
18. SUPPLEMENTARY NOTES		

DDC
REPRODUCED
APR 6 1977
C

19. KEY WORDS

Solid State Lasers, Liquid Lasers, Gas Lasers, Chemical Lasers, Laser Components, Nonlinear Optics, Spectroscopy of Laser Materials, Ultrashort Pulse Generation, Crystal Growing, Gamma Lasers, X-Ray Lasers, Laser Theory, Laser Biological Effects, Laser Communications, Laser Computer Technology, Holography, Laser Chemical Effects, Laser Measurement Applications, Laser Parameters, Laser Beam-Target Interaction, Laser Plasma

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This is the Soviet Laser Bibliography for the second quarter of 1976 and is No. 24 in the series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components: nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; crystal growing; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications; computer technology; holography; laser-induced chemical reactions; instrumentation and measurements; beam-target interaction; and plasma generation and diagnostics.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

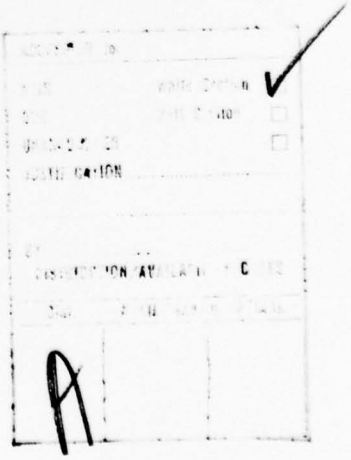
SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

Introduction

This bibliography has been compiled by the staff of Informatics Inc. in response to a continuing contractual assignment to monitor current Soviet-bloc developments in the quantum electronics field. Of all material reviewed, the major yield has been from the approximately 30 periodicals which are known to report the most advanced and interesting findings in Soviet laser technology.

The period covered is the second quarter of 1976, and includes all significant laser-related articles received by us during that interval. The structure and selection criteria are basically those used in the preceding reports.

For convenience we have abbreviated frequently cited source names; a source abbreviation list and an author index are included. Unless indicated by a parenthesized (RZh, KL) notation, all cited sources are available at Informatics Inc. The numbers in parentheses following the authors' names in the text refer to the Cumulative Affiliations List which includes all author affiliations from 1969 to the present.



SOVIET LASER BIBLIOGRAPHY, APRIL - JUNE 1976

TABLE OF CONTENTS

INTRODUCTION i

I. BASIC RESEARCH

A. Solid State Lasers

1. Crystal: Ruby 1

2. Crystal: Chromium Activated 1

3. Crystal: Rare-Earth Activated

a. Nd^{3+} 2
b. Er^{3+} 2

4. Semiconductor: Simple Junction

a. CdS 3
b. GaN 3

5. Semiconductor: Mixed Junction 3

6. Semiconductor: Heterojunction 3

7. Semiconductor: Theory 4

8. Nd:Glass 5

B. Liquid Lasers

1. Organic Dyes

a. Rhodamine 6
b. Phthalimide 9
c. Polymethine 10
d. Coumarin 10
e. Miscellaneous Dyes 10

2. Inorganic Liquids 16

C. Gas Lasers

1. Simple Mixtures

a. He-Ne 17

2. Molecular Beam and Ion

a. CO_2 18
b. CO 19
c. Noble Gas 19
d. N_2 20

e. Metal Vapor 21
f. Gasdynamic 22
g. Miscellaneous Molecular 22

3. Ring Lasers 23

4. Theory 24

D. Chemical Lasers

1. $F_2+H_2(D_2)$ 25

2. Transfer 26

3. Photodissociative 26

4. Miscellaneous 26

E. Components

1. Resonators

a. Design and Performance 27
b. Mode Kinetics 28

2. Pump Sources 28

3. Deflectors 29

4. Diffusers 29

5. Focusers 30

6. Windows 30

7. Filters 30

8. Mirrors 30

9. Detectors 31

10. Modulators 33

F. Nonlinear Optics

1. Frequency Conversion 35

2. Parametric Processes 37

3. Stimulated Scattering

a. Raman 37
b. Brillouin 40
c. Rayleigh 40
d. Miscellaneous 40

4. Self-focusing 40

5. Acoustic Interaction 41
6. General Theory 42
G. Spectroscopy of Laser Materials 44
H. Ultrashort Pulse Generation 45
J. Crystal Growing 46
K. Theoretical Aspects of Advanced Lasers 46
L. General Laser Theory 47
II. LASER APPLICATIONS
A. Biological Effects 50
B. Communications
1. Beam Propagation in the Atmosphere 51
2. Beam Propagation in Liquids 55
3. Theory of Propagation 56
4. Systems 57
C. Computer Technology 61
D. Holography 62
E. Laser-induced Chemical Reactions 74
F. Instrumentation and Measurement
1. Measurement of Laser Parameters 76
2. Miscellaneous Measurement Applications 78
G. Beam-Target Interaction
1. Metal Targets 87
2. Dielectric Targets 89
3. Semiconductor Targets 91
4. Miscellaneous Studies 91
H. Plasma Generation and Diagnostics 93

III. MONOGRAPHS 97
IV. SOURCE ABBREVIATIONS 102
V. CUMULATIVE AFFILIATIONS LIST 109
VI. AUTHOR INDEX 120

I. BASIC RESEARCH

A. SOLID STATE LASERS

1. Crystal: Ruby

1. Arsen'yev, V. V., I. N. Matveyev, Yu. V. Prichko, and A. N. Stepanov (0). Microsecond-pulse ruby laser. PTE, no. 2, 1976, 158-159.

2. Arsen'yev, V. V., V. N. Lomakin, I. N. Matveyev, and A. N. Stepanov (0). Study of a laser with microsecond pulsed emission. KE, no. 5, 1976, 1035-1040.

3. Balashov, N. S., V. I. Grigor'yev, L. S. Korniyenko, N. V. Kravtsov, and B. G. Skuybin (98). Laboratory laser with optical delay line inside the resonator. PTE, no. 2, 1976, 193-194.

4. Ryabov, A. N., N. M. Vlasov, T. I. Kiseleva, L. B. Kulikova, O. A. Uzikova, and A. A. Chernysheva (0). Method for illuminating the surface of ruby crystals. Author's certificate USSR, no. 447383, issued 22 April 1975. (RZhRadiot, 5/76, 5Ye107)

2. Crystal: Chromium Activated

5. Bagdasarov, Kh. S., L. B. Pasternak, and B. K. Sevast'yanov (13). Concentration dependencies of absorption and luminescence spectra in YAG:Cr^{3+} crystals. KE, no. 6, 1976, 1307-1312.

3. Crystal: Rare-Earth Activated

a. Nd^{3+}

6. Alfyorov, Zh. I., V. M. Andreyev, D. Z. Garbuzov, N. Yu. Davidyuk, V. R. Larionov, P. P. Pashinin, A. M. Prokhorov, and V. M. Tuchkevich (4, 1). Model of a YAG:Nd^{3+} laser with a semiconductor converter in the pumping system. KE, no. 6, 1976, 1349-1352.

7. Babkina, T. V., M. I. Gayduk, V. V. Grigor'yants, A. V. Lavrov, and V. I. Ral'chenko (0). Interpretation of neodymium spectra in LnP_5O_{14} ultraphosphates. ZhPS, v. 24, no. 5, 1976, 851-856.

8. Kalintsev, A. G., and L. D. Khazov (0). Garnet laser with an optomechanical switch, switching between 1.06-1.32 μ by varying the pumping intensity. ZhPS, v. 24, no. 6, 1976, 1073-1075.

9. Kovalenko, Ye. S., A. Ye. Mandel', A. V. Pugovkin, and V. K. Savitskiy (0). YAG:Nd laser with mode locking by a method of external modulation of losses. ZhPS, v. 24, no. 5, 1976, 789-793.

10. Kravtsov, N. V., and A. N. Shelayev (98). Competitive effects and single-mode unidirectional lasing in a solid-state ring laser with a nonstationary resonator. ZhTF P, no. 11, 1976, 505-508.

b. Er^{3+}

11. Basiyev, T. T., Yu. K. Voron'ko, V. V. Osiko, A. M. Prokhorov, and I. A. Shcherbakov (1). Experimental observation of "excitation trapping" in a system of strongly interacting particles. ZhETF, v. 70, no. 4, 1976, 1225-1233.

4. Semiconductor: Simple Junction

a. CdS

12. Belkin, N. V., O. V. Bogdankevich, V. A. Kovalenko, I. V. Kryukova, N. G. Pavlovskaya, B. M. Stepanov, K. A. Khayretdinov, V. A. Tsukerman, and S. L. El'yash (0). Sealed-off semiconductor laser based on an IMA tube. PTE, no. 2, 1976, 170-171.

b. GaN

13. Demchenko, A. M., and F. P. Kesamanl' (0). LED's based on gallium nitride (review). IN: Sb 1, 9-16. (RZhF, 6/76, 6D1664)

5. Semiconductor: Mixed Junction

14. Dernovskiy, P. V., M. N. Zargar'yants, and A. I. Ignatov (0). Small-scale simulator of laser radiation at 1.06 μ. PTE, no. 2, 1976, 172-175.

6. Semiconductor: Heterojunction

15. Alfyorov, Zh. I., I. N. Arsent'yev, D. Z. Garbuzov, V. D. Rumyantsev, and V. P. Ulin (4). Limit values of the lasing energy of Ga-In-As-P injection heterolasers operating in the yellow-green region of the spectrum at 77 K. ZhTF P, no. 11, 1976, 481-483.

16. Altynayev, R., L. M. Dolginov, L. V. Druzhinina, P. G. Yeliseyev, I. I. Ismailov, and N. Shokhudzhayev (215, 95, 1). Study of injection heterolasers in the visible range based on $Al_xGa_{1-x}As$. KE, no. 5, 1976, 1080-1084.

17. Dais, P., N. V. Klepikova, M. N. Mizerov, Ye. L. Portnoy, B. S. Ryvkin, and V. B. Smirnitskiy (4). Waveguide characteristics of AlGaAs heterostructures with uniform change in the composition. ZhTF P, no. 8, 1976, 347-351.

18. Dolginov, L. M., L. V. Druzhinina, P. G. Yeliseyev, I. V. Kryukova, V. I. Leskovich, M. G. Mil'vidskiy, B. N. Sverdlov, and V. A. Chapnin (141, 1, 95). Luminescence and laser effect in $Ga_xIn_{1-x}As_ySb_{1-y}$. KE, no. 4, 1976, 932-934.

19. Dolginov, L. M., L. V. Druzhinina, N. Ibrakhimov, and V. Yu. Rogulin (95). Electroluminescence of heterojunctions based on $Al_yGa_{1-y}As_{1-x}Sb_x$. FTP, no. 5, 1976, 847-859.

20. Muszynski, Z., and W. Nakwaski (NS). Single heterostructure lasers with a constant Al distribution in the p^+-$Al_xGa_{1-x}As$ region. BAPS, no. 2, 1976, 7(153)-12(158).

7. Semiconductor: Theory

21. Ali Makher Aburabya, L. P. Godenko, and V. S. Mashkevich (0). Theory of giant pulses in spectrally inhomogeneous solid state lasers. IN: Sb 2, 6-7.

22. Basov, N. G., A. G. Molchanov, A. S. Nasibov, A. Z. Obidin, A. N. Pechenov, and Yu. M. Popov (1). Solid state streamer lasers. ZhETF, v. 70, no. 5, 1976, 1751-1761.

23. Borshch, A. A., M. S. Brodin, and N. N. Krupa (5). Nature of nonlinearity of type A^2B^6 semiconductors resulting in self-excitation of lasing in them. ZhETF, v. 70, no. 5, 1976, 1805-1814.

24. Ilberg, V., and J. Bejcek (NS). Laser transmitter of modulated light. Author's certificate Czechoslovakia, no. 155063, issued 15 October 1974. (RZhRadiot, 5/76, 5Ye124)

25. Moskalenko, S. A., V. A. Sinyak, and P. I. Khadzhi (44). Propagation of coherent excitons and photons in a crystal. KE, no. 4, 1976, 852-854.

26. Yefimenko, L. V., and V. S. Mashkevich (0). Theory of two-channel laser generation in spectrally inhomogeneous condensed media. IN: Sb 2, 67-68. (RZhRadiot, 4/76, 4Ye200)

8. Nd:Glass

27. Alekseyev, N. Ye., V. P. Gapontsev, A. A. Izyneyev, M. Ye. Zhabotinskiy, V. B. Kravchenko, and Yu. P. Rudnitskiy (0). Laser phosphate glasses. IN: Sb 3, 401-434. (RZhRadiot, 4/76, 4Ye160)

28. Alekseyev, N. Ye., A. A. Izyneyev, Yu. L. Kopylov, V. B. Kravchenko, Yu. P. Rudnitskiy, and N. F. Udovenko (0). Activated Nd^{3+} laser glass based on metaphosphates of bivalent metals. ZhPS, v. 24, no. 6, 1976, 976-980.

29. Azizov, E. A., A. D. Bogdanets, Ye. P. Velikhov, Yu. A. Kolesnikov, P. P. Pashinin, M. I. Pergament, A. M. Prokhorov, A. M. Stolov, Ye. M. Sukharev, V. A. Yagnov, and A. M. Yarosh (0). Multichannel laser with energy of 10^4 joules for experiments on spherical compression. IN: Sb 4, 184-192. (RZhRadiot, 5/76, 5Ye103)

30. Blazhko, V. V., M. M. Bubnov, Ye. M. Dianov, and A. V. Chikolini (1). Measuring the temperature dependence of the coefficient of linear expansion and of the temperature coefficient of the index of refraction of laser glasses. KE, no. 5, 1976, 1151-1153.

31. Brachkovskaya, N. B., A. A. Grubin, S. G. Lunter, A. K. Przhevuskiy, E. L. Raaben, and M. N. Tolstoy (0). Intensity of optical transitions in absorption and luminescence spectra of neodymium in glass. KE, no. 5, 1976, 998-1005.

32. Golubeva, N. S., L. F. Krinitsyna, B. L. Sozinov, and N. A. Tkach (24). Laser with a compound rod. IN: Tr 1, 86-90. (RZhF, 6/76, 6D1287)

33. Ignat'yev, I. I., V. P. Vlasenko, V. Kh. Mironov, and V. I. Popov (24). Time synchronization of an Nd^{3+} glass laser at the partially open aperture of the active media. IN: Tr 1, 96-101. (RZhF, 6/76, 6D1269)

34. Khodos, M. Ya., A. D. Galaktionov, A. P. Shtin, and V. V. Makarov (0). Spectral-luminescent characteristics of neodymium in potassium alumophosphate glass containing niobium. ZhPS, v. 24, no. 4, 1976, 631-636.

35. Kravchenko, V. I., V. V. Zaika, and I. Sh. Shkolyar (0). The "Spektr 2-6" neodymium glass sweep-laser. AN UkrRSR. Visnyk, no. 11, 1975, 96-101. (RZhF, 5/76, 5D1186)

36. Voron'ko Yu. K., B. I. Denker, A. A. Zlenko, A. Ya. Karasik, Yu. S. Kus'minov, G. V. Maksimova, V. V. Osiko, A. M. Prokhorov, V. A. Sychugov, G. P. Shipulo, and I. A. Shcherbakov (1). Spectral and lasing properties of (Li-Nd)-phosphate glass. DAN SSSR, v. 227, no. 1, 1976, 75-77.

B. LIQUID LASERS

1. Organic Dyes

a. Rhodamine

37. Abramov, A. F., S. S. Anufrik, and G. R. Ginevich (0). Conformational isomers of rhodamine G. IN: Sb 5, 127-129. (RZhRadiot, 4/76, 4Ye136)

38. Alekseyev, V. A., S. A. Boldyrev, V. V. Gusev, A. I. Zhnikrup, B. V. Kalachev, and A. I. Sopin (0). Effect of the parameters of a coaxial pumping source on the lasing characteristics of organic compound solutions. IN: Sb 5, 170-171. (RZhRadiot, 4/76, 4Ye144)

39. Antonevich, G. N., G. V. Lukomskiy, B. S. Neporent, A. G. Spiro, and V. B. Shilov (0). Relaxation characteristics and parameters of stimulated emission in rhodamine series molecules under laser pumping. IN: Sb 5, 117. (RZhRadiot, 4/76, 4Ye115)

40. Aristov, A. V., and Yu. S. Maslyukov (0). Effect of $T_1 \rightarrow Tn$ and $S_1 \rightarrow Sn$ absorptions on the threshold and energy of lasing in rhodamines and phthalimides in solutions of different polarity. IN: Sb 5, 112-113. (RZhRadiot, 4/76, 4Ye116)

41. Aristov, A. V., and V. S. Shevandin (0). Spectra of gain cross-sections and of stimulated absorption in ethanol rhodamine solutions under conditions of limit population of excited states. IN: Sb 5, 142-143. (RZhRadiot, 4/76, 4Ye94)

42. Barikhin, B. A., B. S. Makayev, L. V. Sukhanov, and A. I. Pavlovskiy (0). Characteristics of the lasing process in organic dye solutions under excitation by cavity electric-discharge pumping sources. IN: Sb 5, 70. (RZhRadiot, 4/76, 4Ye99)

43. Beterov, I. M., L. S. Vasilenko, V. P. Chebotayev, A. V. Shishayev, and B. Ya. Yurshin (0). Study of a single-frequency c-w dye laser with a freely exiting jet. IN: Sb 5, 25-26. (RZhRadiot, 4/76, 4Ye131)

44. Borisov, V. I., and V. I. Lebedev (0). Some lasing characteristics of surface-wave thin-film rhodamine 6G lasers. IN: Sb 5, 39-40. (RZhRadiot, 4/76, 4Ye135)

45. Bushuk, B. A. (0). Effect of high power laser radiation on fluorescence in solutions of complex molecules. IN: Sb 5, 94-96. (RZhRadiot, 4/76, 4Ye109)

46. Gorshkov, V. A., I. L. Klyukach, R. Yu. Orlov, and L. S. Telegin (0). Superluminescent dye laser under picosecond pulse pumping. IN: Sb 5, 6-7. (RZhRadiot, 4/76, 4Ye119)

47. Karpushko, F. S., and G. V. Sinitsyn (0). Tunable laser with reproducible tuning. IN: Sb 5, 231-233. (RZhRadiot, 4/76, 4Ye102)

48. Klyukach, I. L., and R. I. Sokolovskiy (152). Stochastic structure of superluminescence pulses. IVUZ Fiz, no. 4, 1976, 73-78.

49. Kozma, L., E. Farkash, I. Kechkemeti, and M. Molnar (0). Nature of photoproducts of lasing dyes. IN: Sb 5, 108. (RZhRadiot, 4/76, 4Ye87)

50. Kuznetsova, N. A., and V. N. Kokin (0). Association of various rhodamine dyes in aqueous solutions. IN: Sb 5, 151. (RZhRadiot, 4/76, 4Ye88)

51. Levin, M. B., A. D. Cherkasov, and V. I. Shirokov (0). Quantitative study of the efficiency of using liquid luminescent light filters in flashlamp-pumped rhodamine lasers. IN: Sb 5, 90-91. (RZhRadiot, 4/76, 4Ye110)

52. Neporent, B. S., and V. I. Repin (0). Band competition during simultaneous two or three-band tunable lasing in dye solutions. KE, no. 6, 1976, 1327-1330.

53. Smirnov, V. S., and N. G. Bakhshiyev (0). Divergence of radiation from lasers using organic compound solutions under flashlamp pumping. IN: Sb 5, 89. (RZhRadiot, 4/76, 4Ye97)

54. Stefanov, V. Y., R. V. Todorovskaya, and B. K. Kaprielov (NS). Problem of lasing interruption in a laser using an ethanol solution of rhodamine B with flashlamp pumping. Bolgarskiy fizicheskiy zhurnal, v. 2, no. 3, 1975, 267-273. (RZhRadiot, 5/76, 5Ye91)

55. Voronin, V. F. (0). Basic photochemical factors which degrade the lasing efficiency of ethanol rhodamine solutions under flashlamp pumping. IN: Sb 5, 104-106. (RZhRadiot, 4/76, 4Ye92)

56. Yeremenko, A. S., and A. I. Stepanov (0). Laser converter using circulation of a rhodamine 6G solution through a cell. IN: Sb 5, 234-236. (RZhRadiot, 4/76, 4Ye137)

57. Zemskov, K. I., A. A. Isayev, M. A. Kazaryan, G. G. Petrash, A. V. Adamushko, M. V. Belokon', A. N. Rubinov, and P. G. Yevtukhovich (1, 3). Jet dye laser pumped by a copper vapor laser. KE, no. 6, 1976, 1340-1342.

b. Phthalimide

58. Gladchenko, L. F., A. D. Das'ko, and L. G. Pikulik (0). Effect of a quencher on the stimulated absorption spectrum of phthalimide solutions. IN: Sb 5, 114-116. (RZhRadiot, 4/76, 4Ye106)

59. Maksimov, A. I., and L. G. Pikulik (0). Study of the spectral characteristics of anisotropy in stimulated emission in phthalimide derivative solutions. IN: Sb 5, 56-58. (RZhRadiot, 4/76, 4Ye399)

60. Pikulik, L. G., A. D. Das'ko, and V. A. Yakovenko (0). Lasing in vapors of phthalimide derivatives. IN: Sb 5, 180-182. (RZhRadiot, 4/76, 4Ye37)

c. Polymethine

61. Kaliteyevskaya, Ye. N., and T. K. Razumova (0). Study of reversible photochemical processes stimulated by laser radiation in polymethine dye solutions. IN: Sb 5, 125-126. (RZhRadiot, 4/76, 4Ye458)

62. Kaliteyevskaya, Ye. N., and T. K. Razumova (0). Reversible spectrally nonselective changes in the transparency of polymethine dye solutions occurring during the absorption of laser radiation. IN: Sb 5, 152-153. (RZhRadiot, 4/76, 4Ye405)

63. Melishchuk, M. V. (0). Evidence of inhomogeneous spectral broadening of polymethine dyes in liquid solutions during picosecond lasing. IN: Sb 5, 17-19. (RZhRadiot, 4/76, 4Ye104)

d. Coumarin

64. Dzyubenko, M. I., G. S. Vodotyka, V. V. Maslov, and V. M. Nikitchenko (0). Study of various spectral and energy characteristics of lasing in a series of coumarin derivatives. IN: Sb 5, 146-147. (RZhRadiot, 4/76, 4Ye96)

e. Miscellaneous Dyes

65. Abakumov, G. A., L. T. Makarova, A. P. Simonov, and V. V. Fadeyev (0). Threshold characteristics of a laser, allowing for rotational diffusion of the active molecules and stimulated absorption at the lasing wavelength. IN: Sb 5, 64. (RZhRadiot, 4/76, 4Ye114)

66. Abakumov, G. A., V. B. Kolovskiy, L. S. Podol'skaya, B. I. Polyakov, A. P. Simonov, and V. V. Fadeyev (0). Photodecay of active molecule solutions in the UV range. IN: Sb 5, 124. (RZhRadiot, 4/76, 4Ye398)

67. Afanas'yev, A. A., V. A. Batyrev, L. A. Kotomtseva, and A. I. Urbanovich (0). Nonstationary thermal lattice in lasers with distributed feedback. IN: Sb 5, 51-53. (RZhRadiot, 4/76, 4Ye204)

68. Alekseyev, A. A., V. A. Alekseyev, B. P. Zharov, V. S. Ivanov, B. V. Kalachev, B. A. Konstantinov, Ye. S. Kosikhin, E. A. Krasnov, V. N. Krasavin, V. N. Makarov, V. S. Podvolotskiy, A. F. Sil'nitskiy, A. I. Sopin, and B. A. Shipilov (0). Organic compound laser with flashlamp pumping and a pulse repetition rate up to 10 Hertz. IN: Sb 5, 223-224. (RZhRadiot, 4/76, 4Ye139)

69. Alekseyev, V. A., L. K. Denisov, B. V. Kalachev, V. N. Makarov, and A. I. Sopin (0). Study of the energy characteristics of a dye series lasing in the 400-750 nm range under flashlamp pumping. IN: Sb 5, 82-84. (RZhRadiot, 4/76, 4Ye101)

70. Al'perovich, M. A., V. I. Avdeyeva, R. D. Raykhina, and I. I. Levkoyev (0). Study of the directions of thermal conversions in cyanine dyes in various solutions. IN: Sb 5, 132-133. (RZhRadiot, 4/76, 4Ye404)

71. Al'perovich, M. A., V. S. Tyurin, A. M. Vinogradov, V. A. Kuz'min, P. I. Abramenko, V. G. Zhiryakov, and I. I. Levokev (0). Study of the dependence of luminosity of cyanine-series dyes in various solvents on their electron structure. IN: Sb 5, 144-145. (RZhRadiot, 4/76, 4Ye85)

72. Anufrik, S. S., S. P. Zabirko, V. S. Motkin, and A. M. Rusetskiy (0). The "Samotsvet" flashlamp-pumped organic dye laser. IN: Sb 5, 217-219. (RZhRadiot, 4/76, 4Ye123)

73. Asimov, M. M. (0). Direct measurement of the spectra of gain and triplet-triplet absorption in solutions of lasing organic compounds. IN: Sb 5, 109-111. (RZhRadiot, 4/76, 4Ye127)

74. Balashova, A. A., A. S. Bebchuk, G. A. Matyushin, V. A. Strunkin, V. Ya. Fayn, and T. M. Chernyshova (0). Photolysis of ethyi alcohol under the action of a laser flashlamp and the effect of disintegration products on some of its properties. ZhPS, v. 24, no. 4, 1976, 707-709.

75. Barikhin, B. A., B. S. Makayev, L. V. Sukhanov, and A. I. Pavlovskiy (0). Effect of excitation conditions on the lasing process in organic dye solutions. KE, no. 6, 1976, 1211-1216.

76. Belokon', M. V. (0). Dye laser with an induced waveguide. IN: Sb 5, 54-55. (RZhRadiot, 4/76, 4Ye118)

77. Beterov, I. M., A. A. Chernenko, and A. V. Shishayev (0). Study of a pulsed dye laser with transverse pumping by a high power nitrogen laser. IN: Sb 5, 62. (RZhRadiot, 4/76, 4Ye128)

78. Beterov, I. M., L. S. Vasilenko, L. A. Kovaleva, A. V. Shishayev, and B. Ya. Yurshin (10). Use of a high power Ar laser for pumping a c-w dye laser. KE, no. 6, 1976, 1359-1362.

79. Bezrodnyy, V. I., and Ye. A. Tikhonov (0). Study of the asymmetry of fluorescence in dye solutions under nanosecond pumping. IN: Sb 5, 59-61. (RZhRadiot, 4/76, 4Ye112)

80. Bogdanov, V. A., A. M. Makushenko, and V. P. Klochkov (0). Study of the deactivation of excited states in organic solutions by a method of optical quenching of fluorescence. IN: Sb 5, 97-98. (RZhRadiot, 4/76, 4Ye108)

81. Bonch-Bruyevich, A. M., T. K. Razumova, and I. O. Starobogatov (0). Single-pulse dye laser with one amplifier stage and radiation wavelength tuning in the 400-1000 nm range. IN: Sb 5, 226. (RZhRadiot, 4/76, 4Ye132)

82. Borisevich, N. A. (0). Lasing in complex organic compound vapors. IN: Sb 5, 3. (RZhRadiot, 4/76, 4Ye117)

83. Borisevich, N. A., V. V. Gruzinskiy, L. K. Stratskevich, and L. A. Barkova (0). E-beam pumping of complex molecules in the gas phase. IN: Sb 5, 174-176. (RZhRadiot, 4/76, 4Ye36)

84. Danilov, V. V., A. S. Yeremenko, Yu. T. Mazurenko, A. A. Rykov, Yu. L. Slominskiy, and A. I. Stepanov (0). Lasing and spectral-luminescent characteristics of ketocyanines. IN: Sb 5, 137-138. (RZhRadiot, 4/76, 4Ye145)

85. Faynberg, B. D. (0). Deactivation by high optical power of radiative states in molecules of complex organic compounds possessing a non-zero average dipole moment. IN: Sb 5, 118-120. (RZhRadiot, 4/76, 4Ye460)

86. Girin, O. P., and N. G. Bakhshiyev (0). Some features of the generation of light by organic compound solutions, allowing for intermolecular relaxation processes. IN: Sb 5, 130. (RZhRadiot, 4/76, 4Ye142)

87. Gruzinskiy, V. V., and S. V. Davydov (0). Time dependence of the emission spectrum of complex molecules. IN: Sb 5, 71-73. (RZhRadiot, 4/76, 4Ye55)

88. Gudyalis, V., G. Dikchyus, M. Ignatavichyus, and A. Piskarskas (0). Stimulated emission in dyes under ultrashort pulse pumping. IN: Sb 5, 8-9. (RZhRadiot, 4/76, 4Ye113)

89. Gurdzhiyan, L. M., O. L. Kaliya, O. L. Lebedev, and T. N. Fesenko (0). Photolysis of solutions of oxygen in ethanol under the action of soft UV radiation. IN: Sb 5, 131. (RZhRadiot, 4/76, 4Ye459)

90. Kamrukov, A. S., N. P. Kozlov, V. A. Malashchenko, and Yu. S. Protasov (0). Effectiveness of using heavy-current discharges for optical pumping of organic dye lasers. IN: Sb 5, 172-173. (RZhRadiot, 4/76, 4Ye120)

91. Knyazev, B. A., and Ye. P. Fokin (0). Measuring optical gain in europium chelate solutions under pulsed e-beam excitation. IN: Sb 5, 191-192. (RZhRadiot, 4/76, 4Ye121)

92. Kozlov, N. P., and Yu. S. Protasov (0). Organic dye lasers with optical pumping by plasmadynamic discharge radiation. IN: Sb 5, 183-184. (RZhRadiot, 4/76, 4Ye122)

93. Kravchenko, V. I., S. A. Mulenko, A. A. Smirnov, M. S. Soskin, and V. B. Taranenko (0). Liquid sweep-laser with a tunable dispersion resonator. IN: Sb 5, 220-222. (RZhRadiot, 4/76, 4Ye140)

94. Kurasbediani, A. I. (0). Stability of nonlinear properties of organic dye solutions. IN: Sb 5, 148-149. (RZhRadiot, 4/76, 4Ye105)

95. Lagutin, M. F., and N. N. Rozhitskiy (0). Nonstationary luminescence of binary dye solutions at various levels of pumping radiation. IN: Sb 5, 154-156. (RZhRadiot, 4/76, 4Ye90)

96. Lavrovskiy, L. A., Yu. F. Morgun, M. A. Muravitskiy, and S. A. Ryzhechkin (0). Lasing in dyes under high-power single-pulse excitation. IN: Sb 5, 41-43. (RZhRadiot, 4/76, 4Ye133)

97. Letokhov, V. S., and B. D. Pavlik (0). Spectral narrowing of single-mode lasing in a c-w dye laser by a method of nonlinear absorption. IN: Sb 5, 34-35. (RZhRadiot, 4/76, 4Ye111)

98. Merkulov, I. A., and L. V. Tanin (0). Integrated method for measuring the spatial coherence of a dye laser with coherent pumping. IN: Sb 5, 65-67. (RZhRadiot, 4/76, 4Ye129)

99. Mirumyants, S. O., and Ye. A. Vandyukov (0). Spectral characteristics of a quasiline of a purely electron transition of anthracene during frequency variation of pump light and temperature. ZhPS, v. 24, no. 5, 1976, 851-856.

100. Naboykin, Yu. V., L. A. Ogurtsova, A. P. Podgornyy, and F. S. Pokrovskaya (0). Generation of light by impurity molecular crystals. IN: Sb 5, 190. (RZhRadiot, 4/76, 4Ye180)

101. Nestrizhenko, Yu. A., and V. V. Pozhar (0). Study of the polarization of radiation of flashlamp-pumped dye lasers dependent on the viscosity of the solvent. IN: Sb 5, 85. (RZhRadiot, 4/76, 4Ye107)

102. Podgornaya, L. M., Yu. A. Nestrizhenko, M. I. Dzyubenko, L. P. Snagoshchenko, N. I. Mal'tseva, and V. I. Grigor'yeva (0). Lasing properties of pyrazolinyl-ethylene derivatives of ioxadiazole oxazole. IN: Sb 5, 139-140. (RZhRadiot, 4/76, 4Ye103)

103. Podgornaya, L. M., and V. P. Leonov (0). Various pumping regimes of excited states in electrochemiluminescent solutions. IN: Sb 5, 189. (RZhRadiot, 4/76, 4Ye141)

104. Rozhitskiy, N. N., A. I. Bykh, A. V. Kukoba, and Yu. K. Khudenskiy (0). Study of the electroluminescent effect in stimulated emission sources using organic molecules. IN: Sb 5, 187-188. (RZhRadiot, 4/76, 4Ye138)

105. Sochor, V., P. Mraz, J. Blaha, and M. E. Zalabani (0). Spectral and dynamic characteristics of lasers using xanthene dyes and their mixtures. IN: Sb 5, 36. (RZhRadiot, 4/76, 4Ye130)

106. Spiro, A. G., G. N. Antonevich, and V. B. Shilov (0). Dye laser with a multiprismatic selector, tunable by frequency and lasing spectral width, for scientific purposes. IN: Sb 5, 229-230. (RZhRadiot, 4/76, 4Ye124)

107. Tomin, V. I. (0). All-Union Conference on Lasers Based on Complex Organic Compounds, Minsk, 22-24 October 1975. ZhPS, v. 24, no. 5, 1976, 948-950.

108. Tomin, V. I. (0). Electrochemical pumping of dye molecules in solutions. IN: Sb 5, 185-186. (RZhRadiot, 4/76, 4Ye143)

109. Yaroshenko, O. I. (0). Solution of kinetic equations describing lasing in a dye, allowing for anisotropy of the excited molecules. IN: Sb 5, 47-49. (RZhRadiot, 4/76, 4Ye93)

110. Zabiyakin, Yu. Ye. (0). Dye solution lasers with continuous tuning. IN: Sb 5, 227-228. (RZhRadiot, 4/76, 4Ye100)

111. Zuyev, V. S., Yu. Yu. Stoylov, and K. K. Trusov (0). Study of lasing in POPOP vapor under optical pumping. IN: Sb 5, 177-179. (RZhRadiot, 4/76, 4Ye38)

2. Inorganic Liquids

112. Kaporskiy, L. N., O. I. Kalabushkin, S. V. Chinyakov, V. P. Kasatkin, V. V. Belyayev, and S. A. Sinyuta (0). Spectral composition of lasing in solutions of neodymium in phosphorus and sulfur oxyhalides. ZhPS, v. 24, no. 4, 1976, 618-621.

113. Yanush, O. V., G. O. Karapetyan, V. I. Mosichev, S. A. Sinyuta, and S. V Chinyakov (0). Quantum yield and cross-section of gain in stimulated emission for solutions of neodymium in phosphorus oxychloride. ZhPS, v. 24, no. 4, 1976, 622-630.

C. GAS LASERS

1. Simple Mixtures

a. He-Ne

114. Borisovskiy, S. P., V. A. Vereykin, Ye. P. Ostapchenko, V. V. Teselkin, and S. P. Shlykova (0). Radiation spectrum of an He-Ne laser in a simultaneous lasing regime at $3S_2$-$2P_4$ and $3S_2$-$3P_4$ transitions. ZhPS, v. 4, no. 6, 1976, 1076-1079.

115. Gus'kov, L. N., V. P. Sologub, and B. I. Troshin (0). He-Ne laser at 0.63 μ with a quantum level of intensity fluctuations. ZhTF, no. 5, 1976, 1093-1094.

116. Kochanov, V. P., S. G. Rautian, E. G. Saprykin, and A. M. Shalagin (72). Experimental study of spontaneous emission in neon in the presence of a strong monochromatic field. ZhETF, v. 70, no. 6, 1976, 2074-2086.

117. Kozyrev, D. A., P. V. Korolenko, and N. E. Sarkarov (2). Distortions in spatial distribution of the radiation field of an He-Ne laser with multilayer dielectric mirrors. PTE, no. 2, 1976, 168-169.

118. Smirnov, V. S., and A. M. Tumaykin (0). Polarization phenomena in a gas laser with an anisotropic resonator. OiS, v. 40, no. 6, 1976, 1030-1035.

119. Tatarinov, V. V., and Ye. V. Tiganov (0). Study of the beat spectrum of an He-Ne laser by a method of photoelectric displacement. Cited in IVUZ Fiz, no. 4, 1976, 158.

2. Molecular Beam and Ion

a. CO_2

120. Abdulayev, A. A., F. M. Imanov, V. Yu. Baranovskiy, R. K. Pakhlavuni, I. P. Lukonin, and V. V. Kobzev (0). Power supply for a highly stable CO_2 laser. Za tekhnicheskiy progress, no. 8, 1975, 1-5. (RZhRadiot, 4/76, 4Ye207)

121. Bagratashvili, V. N., I. N. Knyazev, V. S. Letokhov, and V. V. Lobko (72). Study of a high-pressure CO_2 laser with continuous tuning. KE, no. 5, 1976, 1011-1026.

122. Baranov, V. Yu., R. K. Bevov, V. S. Mezhevov, I. V. Novobrantsev, Yu. B. Smakovskiy, A. N. Starostin, and A. P. Strel'tsov (23). Pulsed CO_2 laser with a combined high-current discharge. DAN SSSR, v. 227, no. 5, 1976, 1075-1078.

123. Bychkov, Yu. I., V. P. Kudryashov, V. V. Osipov, and V. V. Savin (0). Effect of the parameters of the discharge contour on the regime of input energy into a gas under a self-maintained discharge. ZhPMTF, no. 2, 1976, 42-46.

124. Bychkov, Yu. I., Yu. A. Kurbatov, and V. M. Orlovskiy (78). Performance characteristics of a CO_2 electroionization laser at high pressures. IVUZ Fiz, no. 4, 1976, 40-44.

125. Galochkin, V. T., S. I. Zavorotnyy, V. N. Kosinov, and A. A. Ovchinnikov (1). Pulsed CO_2 laser with a transverse discharge. PTE, no. 2, 1976, 161-163.

126. Kosma, B., A. G. Sviridov, N. N. Sobolev, and L. I. Shumskaya (1). Energy characteristics of pulsed TEA CO_2 laser radiation. KSpF, no. 11, 1975, 29-33. (RZhF, 6/76, 6D1212)

127. Lemesh, N. I., and L. A. Drozdova (0). Thermal gas lens in laser gas-discharge tubes. IN: Sb 6, 131-136. (RZhF, 6/76, 6D1208)

128. Makarevich, A. N., and O. L. Gayko (0). Obtaining three-dimensional ionization of a gas from the effect of an auxiliary discharge. IN: Sb 7, 57-58. (RZhMekh, 4/76, 4B255)

129. Pivovar, V. A. (0). Phenomenon of non-Boltzmann distribution in populations of vibrational levels of nitrogen under pulsed excitation of their electrons. ZhTF P, no. 8, 1976, 379-384.

130. Smirnov, Ye. A. (110). Study of the power stability of CO_2 laser radiation. IN: Tr 2, 31-34. (RZhRadiot, 4/76, 4Ye40)

131. Sviridov, A. N., V. G. Vol'ter, and A. N. Minayev (0). Problem of optical excitation of CO_2 molecules. ZhPS, v. 24, no. 6, 1976, 1015-1021.

132. Wiederhold, G., and K. H. Donnerhacke (NS). Excitation of CO_2 lasers with a transverse self-sustained discharge. KE, no. 4, 1976, 872-878.

b. CO

133. Basov, N. G., V. A. Danilychev, A. A. Ionin, O. M. Kerimov, I. B. Kovsh, A. F. Suchkov, B. M. Urin, and M. U. Khasenov (1). Characteristics of the radiation spectrum of an atmospheric-pressure CO laser. KE, no. 5, 1976, 1145-1147.

c. Noble Gas

134. Aktsipetrov, O. A., G. M. Georgiyev, A. G. Mikhaylovskiy, and A. N. Penin (2). Stabilizing the output power and optimizing the discharge parameters of an argon laser. PTE, no. 2, 1976, 160-161.

135. Basov, N. G., A. N. Brunin, V. A. Danilychev, A. G. Degtyarev, V. A. Dolgikh, O. M. Kerimov, and A. N. Lobanov (1). XeO* molecular laser in the green region of the spectrum. ZhTF P, no. 8, 1976, 337-340.

136. Basov, N. G., Yu. A. Babeyko, V. S. Zuyev, L. D. Mikheyev, V. K. Orlov, I. V. Pogorel'skiy, D. B. Savrovskiy, A. V. Startsev, and V. I. Yalovoy (1). Lasing in an XeO molecule under optical pumping. KE, no. 4, 1976, 930-932.

137. The ILA-120 argon ion laser. IN: Sb 8, 98-99. (RZhF, 6/76, 6D1195)

138. Kalachev, A. N., V. F. Moskalenko, S. V. Pechurina, V. I. Pshenichnikov, and V. A. Chechin (0). High power pulsed single-mode ultraviolet laser. ZhPS, v. 24, no. 5, 1976, 940-944.

d. N_2

139. Kochubey, S. A., V. N. Lisitsyn, V. M. Lunin, and P. L. Chapovskiy (10). High temperature laser cell with a transverse discharge. PTE, no. 2, 1976, 163-164.

140. Sochor, V., P. Engst, and P. Mraz (0). Superradiative nitrogen laser as a pump source for a dye laser. IN: Sb 5, 160. (RZhRadiot, 4/76, 4Ye84)

141. Tkach, Yu. V., Ya. B. Faynberg, I. I. Magda, G. V. Skachek, S. S. Pushkarev, and N. I. Gaponenko (82). High power nitrogen laser pumped by a relativistic beam. Fizika plazmy, no. 3, 1976, 473-485.

e. Metal Vapor

142. Abrosimov, G. V., V. V. Vasil'tsov, V. N. Voloshin, A. V. Korneyev, and V. D. Pis'mennyy (2). Pulsed lasing at self-limited transitions of the copper atom in copper halide vapor. ZhTF P, no. 9, 1976, 417-420.

143. Alayev, M. A., A. I. Baranov, N. M. Vereshchagin, I. N. Gnedin, Yu. P. Zherebtsov, V. F. Moskalenko, and Yu. M. Tsukanov (0). Copper vapor laser with a pulse repetition rate of 100 kHz. KE, no. 5, 1976, 1134-1136.

144. Bokhan, P. A., V. D. Burlakov, V. A. Gerasimov, and V. I. Solomonov (78). Lasing mechanism and energy characteristics of a manganese vapor laser. KE, no. 6, 1976, 1239-1244.

145. Isayev, A. A., M. A. Kazaryan, S. V. Markova, and G. G. Petrash (0). Pulsed metal vapor lasers. IN: Sb 5, 159. (RZhRadiot, 4/76, 4Ye20)

146. Korolev, F. A., V. V. Martynov, V. I. Odintsov, and A. O. Fakhmi (0). Study of stimulated and parametric emission in Rb vapor under two-photon excitation of $5^2D_{3/2,5/2}$ and $7^2S_{1/2}$ levels. OiS, v. 40, no. 6, 1976, 1043-1049.

147. Mizeraczyk, J. K., and J. Ziemann (NS). Experimental study of uniformity in a positive-column He-Cd^+ laser discharge. BAPS, no. 12, 1975, 129(1001)-132(1004).

148. Zhukov, V. V., V. S. Kucherov, Ye. L. Latush, M. F. Sem, and G. N. Tolmachev (0). Strontium and calcium vapor recombination lasers. ZhTF P, no. 12, 1976, 550-553.

f. Gasdynamic

149. Balagurov, A. Ya., B. V. Kalachev, and G. I. Kromskiy (0). Gasdynamic pulsed source of optical radiation. Author's certificate USSR, no. 386458, issued 10 February 1975. (RZhF, 6/76, 6D1279)

150. Gavrikov, V. F., A. P. Dronov, V. K. Orlov, and A. K. Piskunov (0). Carbon bisulfide gasdynamic laser. ZhETF P, v. 23, no. 11, 1976, 649-650.

151. Grin', Yu. I., and B. G. Testov (15). Measuring the radiation gain in a supersonic expansive flow of a gas mixture containing N_2O. DAN SSSR, v. 227, no. 5, 1976, 1086-1089.

152. Losev, S. A., and V. N. Makarov (2). Multifactor optimization of a gasdynamic CO_2 laser. Part 2. Optimization of the specific power. KE, no. 5, 1976, 960-968.

153. Soloukhin, R. I., and N. A. Fomin (193). Variation of inversion in a flow with gasdynamic excitation. DAN SSSR, v. 228, no. 3, 1976, 596-599.

g. Miscellaneous Molecular

154. Machowski, T. (NS). Generation of high power optical beams by molecular lasers. IN: Sb 9, 185-197. (RZhF, 6/76, 6D1199)

155. Stepanov, B. I., S. A. Trushin, and V. V. Churakov (3). Molecular laser using a two-component mixture with optical pumping in the 4.3 μ band. KE, no. 6, 1976, 1320-1326.

156. Vol, Ye. D., Yu. V. Naboykin, L. A. Ogurtsova, A. P. Podgornyy, and F. S. Pokrovskaya (36). Possible effect of phonons on the process of stimulated emission in impurity molecular crystals. KE, no. 6, 1976, 1313-1319.

3. Ring Lasers

157. Baranov, A. V., and G. A. Strokovskiy (0). Experimental study of the beat frequency of opposed waves in a two-mode ring laser. OiS, v. 40, no. 6, 1976, 1090-1092.

158. Belenov, E. M., M. V. Danileyko, V. R. Kozubovskiy, and A. P. Nedavniy (5). Dual-mode gas ring laser. KE, no. 5, 1976, 1085-1094.

159. Danileyko, M. V., V. R. Kozubovskiy, A. M. Negriyko, B. D. Pavlik, and M. T. Shpak (5). Dual-mode gas ring laser. DAN Ukr, seriya A, no. 4, 1976, 356-360.

160. Danileyko, M. V., V. R. Kozubovskiy, A. P. Nedavniy, and M. T. Shpak (5). Dual-mode ring laser with nonlinear absorption. UFZh, no. 4, 1976, 626-636.

161. Danileyko, M. V., N. K. Danilov, V. R. Kozubovskiy, and M. T. Shpak (5). Effects of the competition of orthogonally polarized modes in a ring laser. UFZh, no. 4, 1976, 687-689.

162. Markelov, V. A., and A. A. Turkin (8). Experimental study of the dependence of the difference frequency in a ring laser on the gain in the active medium. KE, no. 5, 1976, 1139-1141.

163. Sardyko, V. I. (0). Polarization characteristics of ring resonators with coupled circuits. ZhPS, v. 24, no. 5, 1976, 803-808.

164. Solov'yev, M. V. (129). Astigmatic Gaussian beams in traveling wave resonators. KE, no. 5, 1976, 1155-1157.

165. Strokovskiy, G. A. (0). Boundary of synchronized four-wave regimes in a gas ring laser. OiS, v. 40, no. 5, 1976, 947-948.

4. Theory

166. Churakov, V. V., and S. A. Trushin (0). Spatial distribution of inversion and threshold characteristics of a molecular laser with optical pumping. ZhPS, v. 24, no. 5, 1976, 794-802.

167. Danilychev, V. A., O. M. Kerimov, and I. B. Kovsh (1). Compressed gas lasers. IN: Tr 3, 49-142. (RZhRadiot, 6/76, 6Ye9)

168. Gudzenko, L. I., Yu. B. Konev, and V. S. Marchenko (1). Effect of vibrational kinetics on shortwave lasing in dispersed molecules. KSpF, no. 9, 1975, 23-27. (RZhF, 5/76, 5D1169)

169. Ivanov, R. S. (74). Ultrasonic laser with transverse electric excitation by an He-CO_2-Xe-Ne mixture in a strong magnetic field. TVT, no. 3, 1976, 676.

170. Khanov, V. A. (75). Stabilized gas laser. Author's certificate USSR, no. 426609, issued 30 June 1975. (RZhRadiot, 5/76, 5Ye60)

171. Luk'yanov, G. A. (113). Recombination plasmadynamic laser using an expanding jet of hydrogen plasma. ZhTF, no. 4, 1976, 759-764.

172. Orlov, B. V. (0). Analyzing the operation of a self-oscillating system in a regime of excitation of a gas-discharge plasma. RiE, no. 4, 1976, 788-792.

173. Orzegowski, H., C. Peschel, and G. Thiede (NS). Device for tuning gas lasers. Patent GDR, no. 179203, issued 12 April 1975. (RZhRadiot, 4/76, 4Ye223)

174. Pal'tsev, L. A., and Ye. A. Romishevskiy (133). Interaction of a nonequilibrium gas with a radiation field. IN: Tr 4, 62-70. (RZhF, 4/76, 4D1092)

175. Pimenov, V. P., and V. A. Shcheglov (1). Amplification of monochromatic radiation under conditions of nonstationary and spatially inhomogeneous excitation of the gas medium. KE, no. 5, 1976, 1041-1050.

176. Skorupski, A. A., and S. Suckewer (NS). Population inversion in high pressure lasers. Nukleonika, v. 20, no. 9, 1975, 807-821. (RZhF, 4/76, 4D1086)

177. Supronowicz, H., A. Dmowski, J. Lastowiecki, R. Janson, and A. Pietrzak (NS). Thyristor power supply for a gas laser. Prace naukowe. Politechnika warszawska. Elektryka, no. 36, 1974, 196-200. (RZhRadiot, 5/76, 5Ye159)

178. Vinogradov, A. V., I. Yu. Skobelev, and Ye. A. Yukov (1). Calculating the gain at transitions of helium-like ions with a wavelength less than 50 nm. KE, no. 5, 1976, 981-985.

179. Vlasov, A. N., and V. V. Teselkin (0). Analysis of the effect of fluctuations in the reference point and in the resonator length on frequency instability in a gas laser, and of requirements for automatic tuning systems. KE, no. 6, 1976, 1299-1306.

D. CHEMICAL LASERS

1. $F_2+H_2(D_2)$

180. Chebotarev, N. F., L. I. Trakhtenberg, and S. Ya. Pshezhetskiy (92). Measuring the constants of relaxation of HF* in chlorine fluorides by a method of measuring the lasing delay. KE, no. 6, 1976, 1331-1336.

2. Transfer

181. Bashkin, A. S., N. M. Gorshunov, Yu. L. Kunin, Yu. A. Neshchimenko, A. N. Orayevskiy, and N. N. Yuryshev (1). Supersonic CO_2 chemical laser using a mixture of atomic deuterium with ozone and CO_2. KE, no. 5, 1976, 1142-1143.

182. Basov, N. G., V. V. Gromov, Ye. P. Markin, A. N. Orayevskiy, A. K. Piskunov, and D. S. Shapovalov (1). Chemical laser using the oxidation reaction of $CO + 0.5\ O_2$ with a supersonic flow of matter. KE, no. 5, 1976, 1154-1155.

183. Nikitin, A. I., and A. N. Orayevskiy (1). Measuring the constant of the rate of energy transfer from TF (v=1) molecules to CO_2 ($00^0 0$) molecules in a chemical laser using an NF_3+T_2 mixture. KE, no. 5, 1976, 1131-1134.

3. Photodissociative

184. Antipenko, B. M., and V. B. Nikolayev (0). Threshold condition of a photoinduced recombination reaction. ZhTF P, no. 12, 1976, 565-570.

185. Arkhipova, Ye. V., B. L. Borovich, and A. K. Zapol'skiy (0). Regime for accumulating excited iodine atoms in an iodine photodissociation laser. KE, no. 6, 1976, 1266-1275.

186. Arkhipova, Ye. V., B. L. Borovich, and A. K. Zapol'skiy (0). Analysis of a kinetic model of an iodine photodissociation laser in a free lasing regime. KE, no. 6, 1976, 1276-1284.

4. Miscellaneous

187. Basov, N. G., A. N. Orayevskiy, and A. V. Pankratov (1). Kinetics of laser chemical reactions. KE, no. 4, 1976, 814-822.

188. Styrov, V. V. (197). Possibility of developing a solid-state laser with chemical pumping. ZhTF P, no. 12, 1976, 540-544.

189. Tal'roze, V. L., G. K. Vasil'yev, Ye. B. Gordon, and Yu. L. Moskvin (0). Chemical physics of chemical lasers. IN: Sb 10, 126. (RZhKh, 19AB, 3/76, 3B1485)

E. COMPONENTS

1. Resonators

a. Design and Performance

190. Galkin, V. I. (0). Device for protecting the windows of a gas-discharge tube. Author's certificate USSR, no. 451155, issued 23 June 1975. (RZhRadiot, 5/76, 5Ye174)

191. Goncharenko, A. M., and L. A. Belousova (0). Theory of astigmatic laser resonators. ZhPS, v. 24, no. 6, 1976, 981-984.

192. Kodylev, A. M., V. F. Moskalenko, and Ye. P. Ostapchenko (0). Active element of a gas laser. Otkr izobr, no. 15, 1976, 347000.

193. Makogon, M. M., and V. B. Sukhanov (0). Resonator with partially selective feedback. IN: Sb 5, 80-81. (RZhRadiot, 4/76, 4Ye210)

194. Mogil'nitskiy, B. S., and Yu. D. Kolomnikov (0). Resonator with an optical delay line. OiS, v. 40, no. 5, 1976, 871-878.

195. Novikov, M. A., and A. D. Tertyshnik (8). Optical resonators with anisotropic elements. IVUZ Radiofiz, no. 3, 1976, 364-372.

196. Orzegowski, H., C. Peschel, G. Thiede, and A. Wiemer (NS). Device for tuning a gas laser. Patent GDR, no. 112035, issued 12 March 1975. (RZhElektrotekhnika i energetika, 2/76, 2V152)

b. Mode Kinetics

197. Ostapchenko, Ye. P., V. V. Rakhvalov, N. I. Rubleva, and V. A. Stepanov (0). Effect of the degeneration and deformation of modes on the spatial coherence of laser radiation. OiS, v. 40, no. 5, 1976, 859-865.

2. Pump Sources

198. Anikiyev, B. G., M. Ye. Zhabotinskiy, N. M. Zhludova, and V. M. Segen' (0). Efficiency of pumping systems for active elements with a rectangular cross-section. KE, no. 5, 1976, 1107-1111.

199. Basov, Yu. G., and M. Yu. Vorob'yev (0). Optical radiation from a moving xenon plasma in an electric discharge shock tube. ZhPS, v. 24, no. 4, 1976, 588-591.

200. Basov, Yu. G., and S. A. Boldyrev (0). Conductivity of xenon lamps with a short-duration discharge. IN: Sb 5, 167-169. (RZhRadiot, 4/76, 4Ye406)

201. Bogolyubov, V. N., V. A. Kolganov, and F. I. Shakirzyanov (19). Nonlinear excitation of spin waves in a perpendicular pumping regime. IN: Sb 5, 143-148. (RZhRadiot, 4/76, 4Ye407)

202. Dyatlov, V. K., M. K. Dyatlov, and Ye. P. Ostapchenko (0). Gas lasers for pumping organic compound solutions. IN: Sb 5, 156-158. (RZhRadiot, 4/76, 4Ye91)

203. Dyubko, S. F., M. N. Yefimenko, V. A. Svich, and L. D. Fesenko (0). Stimulated emission [in the 2-0.2 mm range] during optical pumping of vinylbromide molecules. KE, no. 5, 1976, 1121-1122.

204. Makarov, V. N., and Yu. G. Basov (0). Effect of a laser pump on the radial profile of the brightness of the discharge of a flashlamp. OiS, v. 40, no. 5, 1976, 879-884.

205. Mikhnov, S. A., L. S. Korochkin, and I. P. Shakhlay (3). Controlling the rise-time of a single pulse in a laser with a type KS-19 glass passive switch. PTE, no. 2, 1976, 164-166.

206. Shcherbakov, A. A., A. A. Mak, and G. M. Pereverzeva (0). Effect of the active medium on the temperature profile and electrooptic characteristics of a laser pumping source. ZhTF, no. 4, 1976, 765-771.

207. Zvorykin, V. D., A. D. Klementov, N. G. Kulikovskiy, and V. B. Rozanov (1). Emission of a high-current discharge in indium vapor in the visible and vacuum ultraviolet regions of the spectrum. KE, no. 2, 1976, 344-351.

3. Deflectors

208. Makaretskiy, Ye. A., and A. Ya. Parinskiy (0). Study of the microwave conductivity of an optical radiation deflector. IN: Sb 11, 20-27. (RZhRadiot, 5/76, 5Ye189)

4. Diffusers

209. Novik, F. S., A. I. Molev, S. S. Karinskiy, and R. G. Dokhikyan (231). Telescopic system for beam broadening. Author's certificate USSR, no. 468205, issued 29 July 1975. (RZhRadiot, 4/76, 4Ye221)

5. Focusers

210. Buness, G., G. Herrendoerfer, and P. Schwarz (NS). Device for focusing laser beams. Patent GDR, no. 112090, issued 20 March 1975. (RZhRadiot, 4/76, 4Ye222)

6. Windows

211. Babadzhan, Ye. I., Yu. N. Lokhov, and V. S. Mospanov (16). Problem of "thermal lens" formation in the output window of a laser during passage of a single laser pulse. KE, no. 6, 1976, 1245-1252.

212. Belkin, A. M., A. M. Kodylev, A. S. Larshin, V. F. Moskalenko, and Ye. P. Ostapchenko (0). Optical output element. Otkr izobr, no. 15, 1976, 432847.

7. Filters

213. Cheremukhin, G. S., V. P. Rozhnov, and G. I. Golubeva (7). Narrowband interference filters based on mica. OMP, no. 5, 1976, 50-53.

214. Graczyk, A., J. Sobczynska, A. Kozikowska, and S. Puchalski (NS). Complex compounds of phthalocyanines and transition metal halogenides applied as nonlinear filters for ruby lasers. Part 1. Complex compounds of phthalocyanines and aluminum chloride. Optica applic., v. 4, no. 4, 1974(1975), 31-34. (RZhKh, 19AB, 5B1458)

8. Mirrors

215. Demidov, M. N., B. P. Miretskiy, G. S. Sedov, A. V. Sibirev, and S. A. Smorchkova (0). Method for automatic angular adjustment of a laser resonator mirror. Otkr izobr, no. 15, 1976, 286823.

216. Tulibacki, A., and J. Kopec (NS). Designing partially-reflecting interference laser mirrors operating in the center of a high reflection band. IN: Sb 9, 199-204. (RZhF, 6/76, 6D1293)

9. Detectors

217. Arifov, U. A., A. Kh. Ayukhanov, N. Abdullayev, and M. S. Arifdzhanova (202). Use of semiconductor films with anomalous photo e. m. f. for recording laser radiation. PTE, no. 2, 1976, 179-180.

218. Astrik, R. V., T. E. Soonurm, and Kh. V. Khinrikus (255). Limit sensitivity of a metal-oxide-metal detector. KE, no. 6, 1976, 1233-1238.

219. Astrov, Yu. A., V. V. Yegorov, Sh. S. Kasymov, V. M. Murugov, L. G. Paritskiy, and Yu. N. Sheremet'yev (0). Semiconductor photographic system for recording pulsed IR laser radiation. IN: Sb 12, 18-21. (RZhFoto, 3/76, 3/46/159)

220. Bergmann, Ya. V., V. I. Korol'kov, Yu. M. Makushenko, V. G. Nikitin, and A. A. Yakovenko (4). Study of back-biased heterojunctions in a GaAs-AlAs system. FTP, no. 4, 1976, 652-657.

221. Davydov, V. S., and N. D. Poroshin (0). Analyzing the conditions for realizing the limit sensitivity of high-resistance photodiodes during parametric amplification of the signal. ZhPS, v. 24, no. 4, 1976, 692-697.

222. Dianova, V. A., V. N. Parygin, and A. Savenok (2). Superheterodyne reception of SHF-modulated optical radiation. VMU, no. 2, 1976, 229-232.

223. Dianova, V. A., V. N. Parygin, and A. Savenok (2). Using a photomultiplier for superheterodyne reception of modulated light. VMU, no. 6, 1975, 746-749.

224. Dugin, V. S., I. N. Matveyev, S. M. Pshenichnikov, N. P. Sopina, and A. F. Umnov (0). Detector of a random pulsed sequence of weak optical radiation. PTE, no. 2, 1976, 137-139.

225. Filipov, F. (NS). Construction and technique in manufacturing photodetectors for laser devices. VMEI Lenin. Izvestiya, v. 34, no. 1, 1975, 199-204. (RZhF, 5/76, 5D1455)

226. Litovchenko, N. M., L. F. Linnik, V. Ye. Rodionov, and V. T. Aleksandrov (0). Ge, Si and GaAs photoresistors as laser radiation detectors. IN: Sb 13, 48-50. (RZhF, 6/76, 6D1278)

227. Malyutenko, V. K., A. P. Medvid', and V. A. Mis'nik (6). Controlling the spectral sensitivity of InSb photodetectors. FTP, no. 4, 1976, 646-651.

228. Rud', Yu. V., and K. Ovezov (4). Photoelectric properties of diodes based on n-$ZnSiAs_2$. FTP, no. 5, 1976, 951-957.

229. Tyurin, Yu. G., Yu. M. Yuabov, and G. R. Yagudayev (262). Study of the electric and photoelectric properties of an SnO_2-Si heterojunction. FTP, no. 4, 1976, 782-785.

230. Valov, P. M., K. V. Goncharenko, Yu. V. Markov, V. V. Pershin, S. M. Ryvkin, and I. D. Yaroshetskiy (4). FP and FPU-type photodetectors based on the drag effect of photons on electrons. KE, no. 6, 1976, 1365-1366.

231. Vishchakas, Yu. K., S. Ch. Karpinskas, L. I. Burbulyavichyus, A. Ye. Meshkauskas, and Yu. Yu. Mishkinis (49). Electric properties of a p-PbSe--n-CdSe heterojunction. FTP, no. 4, 1976, 790-792.

232. Zanadvorov, P. N., Ye. L. Lebedeva, and V. M. Moldavskaya (32). Optical detection near the edge of the absorption band. KE, no. 5, 1976, 1006-1010.

233. Zhgun, S. A., V. A. Zarshchikov, G. D. Lobov, V. S. Solov'yev, A. A. Rivlin, and V. V. Shtykov (163). Wideband IR-detectors with a long service life, based on a metal-oxide-metal contact. KE, no. 6, 1976, 1357-1359.

234. Zimogorova, N. S., S. G. Konnikov, I. I. Matkova, and D. N. Tret'yakov (4). Photoelectric properties of heterojunctions in a GaSb-AlSb system. FTP, no. 4, 1976, 669-672.

10. Modulators

235. Balkarov, O. M., and A. M. Leonov (24). Bimorphous piezoceramic element for scanning a laser beam. IN: Tr 1, 101-105. (RZhF, 5/76, 5D1262)

236. Borovik-Romanov, A. S., V. G. Zhotikov, N. M. Kreynes, and A. A. Pankov (65). SHF modulation of light by antiferromagnetic resonance in $CoCO_3$. ZhETF P, v. 23, no. 12, 1976, 705-708.

237. Bredikhin, V. I., V. N. Genkin, and L. V. Soustov (8). Nonequilibrium carriers in proustite. FTT, no. 5, 1976, 1436-1438.

238. Krasyuk, I. K., S. G. Lukishova, P. P. Pashinin, A. M. Prokhorov, and A. V. Shirkov (1). Control of transverse distribution of laser beam intensity by means of "soft" diaphragms. KE, no. 6, 1976, 1337-1340.

239. Lavrovskiy, L. A., A. V. Milinkevich, Yu. F. Morgun, M. A. Muravitskiy, V. A. Savva, and A. M. Samson (0). Study of the properties of modulating a giant pulse in a ruby laser with active single Q-switching. ZhPS, v. 24, no. 5, 1976, 780-788.

240. Luk'yanov, D. P., and Yu. P. Kurenev (0). Optical device [for producing a nonmutual phase shift in linearly polarized vibrations]. Author's certificate USSR, no. 457130, issued 8 August 1975. (RZhRadiot, 4/76, 4Ye217)

241. Milinkevich, A. V., V. A. Savva, and A. M. Samson (0). Modulation of laser radiation induced by transition processes. IN: Sb 2, 120. (RZhRadiot, 4/76, 4Ye238)

242. Stefanov, V. I., and K. V. Apostolov (NS). Effect of the cell geometry and active medium on the characteristics of a Kerr cell. Bolgarskiy fizicheskiy zhurnal, v. 2, no. 3, 1975, 273-283. (RZhRadiot, 5/76, 5Ye183)

243. Vasilevskaya, A. S., I. M. Grodnenskiy, and A. S. Sonin (141). Time characteristics of the scattering effect in a transparent ferroelectric ceramic. KE, no. 6, 1976, 1346-1349.

244. Vasina, S. A., Yu. M. Gryaznov, T. I. Kirsanova, V. K. Savelova, and R. Ye. Shamshin (0). New stable passive switch for a neodymium laser. ZhPS, v. 24, no. 6, 1976, 1113-1116.

245. Vorob'yev, N. S., and V. V. Korobkin (1). Study of the bleaching spectrum of saturable dyes for a neodymium laser. KSpF, no. 11, 1975, 7-10. (RZhF, 6/76, 6D1108)

246. Zakharov, I. S., P. A. Petukhov, V. M. Skorikov, I. M. Yefimenko, V. M. Andrianov, and P. A. Akinfiyev (18). Visualization of an ultraviolet image by means of a space-time electrooptic modulator of light. KE, no. 6, 1976, 1295-1298.

247. Zudkov, P. I., and G. M. Kuznetsov (7). Electrooptic switch insensitive to misalignment of the optical axis. OMP, no. 4, 1976, 13-15.

248. Zusman, M. I., and V. N. Parygin (0). Pulsed internal modulation in an He-Ne laser. RiE, no. 6, 1976, 1283-1288.

F. NONLINEAR OPTICS

1. Frequency Conversion

249. Akimov, A. P., N. S. Golubeva, V. N. Rozhdestvin, and B. L. Sozinov (24). Phased automatic frequency tuning of autonomous single-mode lasers. IN: Tr 1, 90-96. (RZhF, 6/76, 6D1271)

250. Batishche, S. A., V. S. Motkin, and P. I. Myshalov (0). The "Volna" frequency converter attachment for solid state and gas lasers. IN: Sb 5, 225. (RZhRadiot, 4/76, 4Ye187)

251. Betin, A. A., and G. A. Pasmanik (8). Conservation of spatial coherence of Stokes beams during their amplification in a multimode pumping field. ZhETF P, v. 23, no. 10, 1976, 577-580.

252. Deryugin, L. N., and V. Ye. Sotin (0). Elements of integrated optics. IN: Sb 14, 270. (RZhRadiot, 4/76, 4Ye287)

253. Fadeyev, V. V., Yu. M. Anisimov, G. A. Abakumov, N. V. Grishina, and A. P. Simonov (0). Conversion of lasing spectrum in an organic compound solution laser, pumped by a short-duration flashlamp. IN: Sb 5, 77. (RZhRadiot, 4/76, 4Ye125)

254. Graja, A. (NS). Study of nonlinear properties of solids by a method of second harmonic generation. IN: Sb 9, 293-309. (RZhF, 6/76, 6D1096)

255. Kasprowicz-Kielich, B., S. Kielich, and R. Zawodny (NS). Dependence of nonlinear susceptibilities on laser light intensity in harmonic generation phenomena. APP, v. A49, no. 4, 1976, 521-532.

256. Korniyenko, N. Ye., A. I. Ryzhkov, and V. L. Strizhevskiy (51). Intraresonator parametric frequency conversion and its effect on the lasing process. KE, no. 4, 1976, 786-789.

257. Kuczynski, W. (NS). Study of the efficiency of second harmonic generation in focused laser beams. Fiz. dielektr. i radiospektr. Pr. komis. mat.-przyrodn. PTPN, v. 7, no. 1, 1975, 121-132. (RZhF, 6/76, 6D1124)

258. Lobko, V. V., Yu. A. Matveyets, and D. N. Nikogosyan (72). Study of the time structure of high-pressure CO_2 laser pulses by means of upconversion. KE, no. 6, 1976, 1253-1257.

259. Malz, D., J. Bergmann, and J. Heise (NS). Upconversion from thermal IR radiation in $LiIO_3$, using a pulsed ruby laser. Experimentelle Technik der Physik, v. 23, no. 4, 1975, 379-388. (RZhF, 5/76, 5D1150)

260. Malz, D., J. Bergmann, and J. Heise (NS). Upconversion of thermal IR radiation in $LiIO_3$, using a c-w argon laser. Experimentelle Technik der Physik, v. 23, no. 5, 1975, 495-498. (RZhF, 6/76, 6D1130)

261. Stroganov, V. I., I. M. Beterov, V. I. Trunov, A. A. Chernenko, and B. Ya. Yurshin (0). Conversion of organic dye laser radiation to optical harmonics in new nonlinear crystals. IN: Sb 5, 63. (RZhRadiot, 4/76, 4Ye86)

262. Stroganov, V. I., V. I. Trunov, A. A. Chernenko, and A. N. Izrailenko (10). Conversion of nitrogen laser radiation to high power UV radiation. KE, no. 5, 1976, 1122-1124.

263. Tagiyev, Z. A., and A. S. Chirkin (0). Second approximation of the theory of dispersion in processes of optical harmonic generation. ZhPS, v. 24, no. 4, 1976, 611-617

264. Tagiyev, Z. A., and A. S. Chirkin (0). Frequency shift of wideband laser radiation. ZhPS, v. 24, no. 5, 1976, 918-920.

265. Vedenov, A. A., G. D. Myl'nikov, and D. N. Sobolenko (0). Conversion of CO_2 laser radiation to the far infrared region. KE, no. 4, 1976, 777-778.

2. Parametric Processes

266. Aktsipetrov, O. A., G. M. Georgiyev, T. V. Laptinskaya, A. G. Mikhaylovskiy, and A. N. Penin (2). Dispersion of nonlinear susceptibility of a lithium iodate crystal. KE, no. 4, 1976, 926-928.

267. Babin, A. A., Yu. N. Belyayev, V. N. Petryakov, M. M. Sushik, and G. I. Freydman (8). Parametric oscillator using an $LiIO_3$ crystal pumped by a neodymium laser. KE, no. 5, 1976, 1138-1139.

268. Im Tkhek-de, O. P. Podavalova, A. K. Popov, and G. Kh. Tartakovskiy (210). Four-photon parametric lasing in an He-Ne laser radiation field. KE, no. 4, 1976, 715-717.

269. Zhdanov, B. V., L. L. Kulyuk, and S. M. Pershin (2). Experimental study of the mechanisms of parametric lasing in stimulated Raman scattering components. KE, no. 5, 1976, 1027-1034.

3. Stimulated Scattering

a. Raman

270. Akhmediyev, N. N. (2). Theory of Raman scattering by surface polaritons. KE, no. 6 1976, 1354-1357.

271. Apanasevich, P. A., and V. A. Orlovich (0). Use of stimulated Raman scattering for measuring Raman scattering cross-sections. IN: Sb 15, 60-66. (RZhF, 5/76, 5D1140)

272. Bobovich, Ya. S., and A. V. Bortkevich (0). Resonant stimulated Raman spectroscopy of molecules in excited electron states. IN: Sb 15, 3-10. (RZhF, 5/76, 5D1128)

273. Butylkin, V. S., G. V. Venkin, L. L. Kulyuk, D. I. Maleyev, Yu. G. Khronopulo, and M. F. Shalyayev (0). Study of the parametric mechanism for generating the second Stokes component in stimulated Raman scattering. IN: Sb 15, 81-82. (RZhF, 5/76, 5D1133)

274. Godenko, L. P., and V. S. Mashkevich (0). Theory of stimulated Raman scattering in spectrally inhomogeneous condensed media. IN: Sb 15, 85-86. (RZhF, 5/76, 5D1129)

275. Gorbunov, L. M., V. I. Domrin, and R. R. Ramazashvili (1). Stimulated Raman scattering and penetration of an electromagnetic wave into an inhomogeneous plasma. ZhETF, v. 70, no. 6, 1976, 2161-2177.

276. Grasyuk, A. Z., I. G. Zubarev, A. V. Kotov, S. I. Mikhaylov, and V. G. Smirnov (1). Tunable Raman laser in the infrared using compressed hydrogen. KE, no. 5, 1976, 1062-1067.

277. Gruzinskiy, V. V., and N. M. Paltarak (0). Spontaneous and stimulated Raman scattering in chain aryl derivatives of N-heterocyclic compounds. IN: Sb 15, 87-88. (RZhF, 5/76, 5D475)

278. Gruzinskiy, V. V., and N. M. Paltarak (0). Spontaneous and stimulated Raman scattering in aryl derivatives of oxadiazole, oxazole and benzoxazole. ZhPS, v. 24, no. 5, 1976, 829-833.

279. Kondilenko, I. I., Vu N'y Kyong, and V. I. Malyy (0). Effect of dispersion of a powder and other factors on stimulated Raman scattering in polycrystals. ZhPS, v. 24, no. 6, 1976, 1102-1104.

280. Kondilenko, I. I., and P. A. Korotkov (0). Intermolecular interaction and stimulated Raman scattering spectra. IN: Sb 15, 37-42. (RZhF, 5/76, 5D632)

281. Koroteyev, N. I. (2). Active spectroscopy of resonance Raman scattering. KE, no. 4, 1976, 755-756.

282. Lau, A., W. Werncke, M. Pfeiffer, K. Lenz, and H-J. Weigmann (NS). Inverse Raman scattering. KE, no. 4, 1976, 739-750.

283. Makhviladze, T. M., and M. Ye. Sarychev (0). Theory of angular distribution in stimulated Raman scattering in an isotropic medium. IN: Sb 15, 90-91. (RZhF, 5/76, 5D1131)

284. Sushchinskiy, M. M. (0). Current status of research on the basic characteristics of stimulated Raman scattering. IN: Sb 15, 31-36. (RZhF, 5/76, 5D1124)

285. Venkin, G. V., G. M. Krochik, L. L. Kulyuk, D. I. Maleyev, and Yu. G. Khronopulo (15). Effect of four-wave parametric processes on the dynamics of the Stokes components of stimulated Raman scattering. ZhETF, v. 70, no. 5, 1976, 1674-1686.

286. Venkin, G. V., G. M. Krochik, L. L. Kulyuk, D. I. Maleyev, and Yu. G. Khronopulo (0). Effect of parametric resonance processes on the dynamics of the Stokes component in stimulated Raman scattering. IN: Sb 15, 79-80. (RZhF, 5/76, 5D1134)

287. Venkin, G. V., L. L. Kulyuk, and D. I. Maleyev (2). Measuring the pressure of gaseous deuterium by means of stimulated Raman scattering. KE, no. 4, 1976, 928-929.

288. Zubarev, I. G., A. B. Mironov, and S. I. Mikhaylov (1). Effect of nonmonochromatic pumping on the amplification of monochromatic Stokes radiation. ZhETF P, v. 23, no. 12, 1976, 697-700.

b. Brillouin

289. Kul'bitskaya, M. N., V. P. Romanov, Ye. O. Chernysheva, and V. A. Shutilov (12). Problem of temperature dependence of optical scattering in glass. Fizika i khimiya stekla, no. 2, 1976, 183-184.

290. Silin, V. P., and A. N. Starodub (1). Stimulated Brillouin scattering in an inhomogeneous plasma. ZhETF P, v. 23, no. 11, 1976, 609-612.

291. Suramlishvili, G. I. (0). Stimulated Brillouin scattering in the presence of Langmuir oscillations. IN: Sb 16, 125-130.

c. Rayleigh

292. Vlasov, D. V., and I. L. Fabelinskiy (1). Fine structure of stimulated Rayleigh line wing scattering. ZhETF, v. 70, no. 4, 1976, 1350-1362.

d. Miscellaneous

293. Gavrikov, V. K., and A. V. Kats (163). Stimulated scattering of light by surface waves under conditions of total internal reflection. KE, no. 5, 1976, 1112-1120.

4. Self-focusing

294. Rozanov, N. N. (0). Nonlinear development of small-scale disturbances during self-focusing of laser radiation. ZhTF P, no. 10, 1976, 473-477.

295. Vlasov, S. N., and Yu. K. Verevkin (8). Characteristics of limiting the lasing power of a mode-locked laser by self-focusing in the active element. KE, no. 5, 1976, 991-997.

5. Acoustic Interaction

296. Avakyants, L. P., D. F. Kiselev, and N. N. Shchitov (2). Photoelasticity in $LiNbO_3$. FTT, no. 6, 1976, 1547-1551.

297. Golodenko, N. N., V. F. Yefimov, and N. G. Kokodiy (34). Piezovibrations induced by a laser pulse in transparent crystals. Khar'kovskiy universitet. Vestnik, no. 130, radiofizika i elektronika, no. 4, 1975, 119-121. (RZhRadiot, 4/76, 4Ye383)

298. Ivakin, Ye. V., A. M. Lazaruk, I. P. Petrovich, A. S. Rubanov, and B. I. Stepanov (3). Interference-optical excitation of acoustic vibrations in absorption media. ZhTF P, no. 10, 1976, 466-469.

299. Kozyayev, Ye. F., and K. A. Naugol'nykh (21). Thermal acoustooptic effect. Akusticheskiy zhurnal, no. 3, 1976, 366-369.

300. Kulakov, S. V., and V. V. Soroka (0). Possibility of using anisotropic diffraction of light for enhancing the parameters of acoustooptic devices for signal processing. IN: Sb 17, 42-43. (RZhRadiot, 4/76, 4Ye252)

301. Kutsenko, Ya. P., I. D. Turyanitsa, and V. V. Tsitrovskiy (136). Acoustooptic properties of glass in a Bi-Sb-O-I system. Akusticheskiy zhurnal, no. 3, 1976, 454-455.

302. Skibarko, A. P., I. V. Bazunov, B. A. Kuritsyn, and R. D. Medzhitov (116). Generation of ultrasonic waves during irradiation of the surface of an object by an intensity-modulated optical flux. IN: Tr 6, 5-13. (RZhF, 2/76, 2Zh428)

6. General Theory

303. Alekseyev, V. A., and T. L. Andreyeva (1). Spectral characteristics of a gas saturated by a resonant field. ZhETF, v. 70, no. 5, 1976, 1651-1659.

304. Arslanbekov, T. U., V. A. Grinchuk, G. A. Delone, and K. B. Petrosyan (1). Measuring the cross-sections of five-photon ionization of an Na atom and four-photon ionization of a Cs atom in the radiation field of a single-mode neodymium laser. KSpF, no. 10, 1975, 33-37. (RZhRadiot, 4/76, 4Ye397)

305. Asribekov, V. Ye., S. A. Akhmanov, and A. S. Chirkin (0). News service on literature on quantum electronics. KE, no. 5, 1976, 1167-1170.

306. Bakos, J., V. A. Grinchuk, A. Kiss, M. L. Nagayeva, and V. G. Ovchinnikov (1). Measuring the cross-sections of three-photon ionization of helium atoms from metastable states. KSpF, no. 9, 1976, 28-32. (RZhRadiot, 4/76, 4Ye412)

307. Belyy, V. N., N. V. Maksimenko, and A. N. Serdyukov (3, 379). The Onsager principle in nonlinear optics. DAN B, no. 5, 1976, 406-408.

308. Bialynicka-Birula, Z. (NS). Optically induced displacement and broadening of levels in multiphoton processes. IN: Sb 9, 285-291. (RZhF, 6/76, 6D1103)

309. Bolotovskiy, B. M., A. I. Plis, and S. N. Stolyarov (1). Propagation of radiation pulses in nonstationary media. IVUZ Radiofiz, no. 4, 1976, 567-573.

310. Dubetskiy, B. Ya. (10). The Ramsey theory of nonlinear resonance in the optical region of the spectrum. KE, no. 6, 1976, 1258-1265.

311. Hofmann, C. (NS). Linear and nonlinear optics. Feingeraetetechnik, v. 24, no. 11, 1975, 511-515. (RZhF, 5/76, 5D1099)

312. Kaplan, A. Ye. (388). Two-level system in the field of a high power pulse of arbitrary duration. KE, no. 6, 1976, 1342-1344.

313. Kielich, S. (NS). Multiphoton scattering in statistically inhomogeneous media. IN: Sb 9, 311-337. (RZhF, 6/76, 6D1109)

314. Kolodziejczak, J., and L. Kowalczyk (NS). Nonlinear magnetooptics of semiconductors. IN: Sb 9, 271-284. (RZhF, 6/76, 6D1086)

315. Ovander, L. N., and A. D. Petrenko (0). Nonlinear gyration tensors of molecular crystals. ZhPS, v. 24, no. 5, 1976, 904-909.

316. Rysakov, V. M. (0). Distribution of light near the focus of a nonaberrational lens for a Gaussian beam. OiS, v. 40, no. 5, 1976, 949-950.

317. Shaldin, Yu. V. (13). Nonlinear optical sensitivity of uniaxial pyroelectrics. FTT, no. 6, 1976, 1768-1770.

318. Vitlina, R. Z., and A. V. Chaplik (10). Rotational spectrum and collisional broadening of rotational lines of molecules in a strong optical field. ZhETF, v. 70, no. 6, 1976, 2127-2132.

319. Wilhelmi, B., E. Heumann, and W. Triebel (NS). Absorption of picosecond optical pulses by selectively excited electron states of molecules. KE, no. 4, 1976, 732-738.

320. Yemel'yanov, V. P., and A. P. Khapalyuk (0). Propagation of light in a nonlinear defocusing medium. ZhPS, v. 24, no. 4, 1976, 698-706.

321. Zon, B. A., and B. G. Katsnel'son (0). Selection rules for electromagnetic transitions of an atom in a strong optical field. OiS, v. 40, no. 5, 1976, 952-954.

G. SPECTROSCOPY OF LASER MATERIALS

322. Agekyan, V. T., Yu. F. Solomonov, Yu. A. Stepanov, and V. K. Subashiyev (12, 4). Emission spectrum of GaSe under strong optical excitation. FTP, no. 4, 1976, 707-711.

323. Denisov, Yu. V., Yu. I. Krasilov, N. F. Perevozchikov, I. A. Rozanov, and N. N. Chudinova (118, 18). Luminescence in rare-earth ultraphosphates. NM, no. 6, 1976, 1961-1964.

324. Ketsle, G. A., L. V. Levshin, and V. V. Bryukhanov (0). Studying the mechanism of the effect of an external heavy atom on the intercombination transitions in rhodamine dye solutions. ZhPS, v. 24, no. 5, 1976, 809-814.

325. Levshin, L. V., T. D. Slavnova, and V. I. Yuzhakov (0). Spectroscopic evidence of association of rhodamine 6G in alcohol solutions at various temperatures. ZhPS, v. 24, no. 6, 1976, 985-990.

326. Margaryan, A. A., M. G. Manvelyan, and S. S. Karapetyan (203). Effect of a field of inoculants and ligands on the luminescence of Mn(II) in inorganic glass. DAN SSSR, v. 228, no. 4, 1976, 881-883.

327. Murin, V. A., V. F. Mandzhikov, and V. A. Barachevskiy (0). Study of triplet-triplet absorption of photochromic spiropyran by a method of laser photoexcitation. OiS, v. 40, no. 6, 1976, 1084-1086.

328. Penchev, I. I. (NS). Luminescence spectra of perylene in normal paraffins at a temperature of 77 K, excited by laser light. Bolgarskiy fizicheskiy zhurnal, v. 2, no. 3, 1975, 250-255. (RZhF, 6/76, 6D894)

329. Sochor, V. (NS). Study of the absorption and emission spectra of xanthene dyes. Optica applic., v. 4, no. 4, 1974(1975), 45-49. (RZhKh, 19AB, 3/76, 3B235)

H. ULTRASHORT PULSE GENERATION

330. Dikchyus, G., R. Danelyus, V. Kabelka, A. Piskarskas, T. Tomkyavichyus, and A. Stabinis (49). Parametric amplification and ultrashort pulse generation for spectroscopic applications. KE, no. 4, 1976, 779-785.

331. Kochubey, S. S., N. A. Loyko, A. V. Milinkevich, V. A. Savva, and A. M. Samson (0). Characteristics of the fluctuation mechanism in the formation of ultrashort pulses in a dye laser. IN: Sb 5, 20-21. (RZhRadiot, 4/76, 4Ye95)

332. Lariontsev, Ye. G., and V. N. Serkin (98). Effect of self-focusing on the structure of ultrashort pulses of light in a laser with a bleachable filter. IVUZ Radiofiz, no. 3, 1976, 357-363.

333. Milinkevich, A. V., V. A. Savva, and A. M. Samson (0). Two new mechanisms for short pulse generation in a dye laser, dependent on a fast rise or fast drop of population inversion. IN: Sb 5, 10-12. (RZhRadiot, 4/76, 4Ye98)

334. Narovlyanskaya, N. M., and Ye. A. Tikhonov (0). Ultrashort pulse generation in the 7100-10000 Å spectral region. IN: Sb 5, 15-16. (RZhRadiot, 4/76, 4Ye249)

335. Tolstorozhev, G. B., D. M. Khalimanovich, S. A. Tikhomirov, and Yu. I. Bubekov (0). Lasing characteristics of complex molecules in an ultrashort pulse regime. IN: Sb 5, 13-14. (RZhRadiot, 4/76, 4Ye42)

J. CRYSTAL GROWING

336. Klevtsov, P. V., and L. P. Kozeyeva (77). Crystallization and polymorphism of $RbLn(WO_4)_2$ (Ln=Ce-Tb) rubidium rare-earth tungstates. AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1976, 91-95.

337. Kovalenko, V. F., I. Ye. Maronchuk, V. A. Mokritskiy, and V. I. Orel (380). Effect of crystallographic orientation on the growth and properties of epitaxial layers of $Al_xGa_{1-x}As$. NM, no. 4, 1976, 623-626.

338. Sulovsky, J., J. Kvapil, Jos. Kvapil, B. Perner, V. Kment, V. Dolejs, and V. Smisek (NS). Method of manufacturing ruby single crystals for lasers. Author's certificate Czechoslovakia, no. 153626, issued 15 June 1974. (RZhRadiot, 4/76, 4Ye149)

K. THEORETICAL ASPECTS OF ADVANCED LASERS

339. Akhmanov, S. A., and B. A. Grishanin (2). Coherent radiation of characteristic lines during passage of charged particles through single crystals. ZhETF P, v. 23, no. 10, 1976, 562-565.

340. Andreyev, A. V., and Yu. A. Il'inskiy (2). Possibility of using the Borman effect in a gamma laser. ZhETF, v. 70, no. 5, 1976, 1713-1719.

341. Gol'danskiy, V. I., and V. A. Namiot (67). Excitation of isomer nuclear levels by laser radiation according to the mechanism of reverse internal electron conversion. ZhETF P, v. 23, no. 9, 1976, 495-497.

342. Gol'danskiy, V. I., and V. A. Namiot (67, 98). Note on the non-Moessbauer gamma laser. KE, no. 4, 1976, 835-837.

343. Il'inskiy, Yu. A., and R. V. Khokhlov (2). Possibility of developing a gamma laser. IVUZ Radiofiz, no. 5-6, 1976, 792-800.

344. Karyagin, S. V. (67). Possibility of multiparametric regulation of hyperfine structure. ZhTF P, no. 11, 1976, 500-504.

345. Lyakhov, G. A. (2). X-ray laser with distributed feedback. Output power and coherence. KE, no. 4, 1976, 838-839.

346. Mitin, A. V. (38). Coherent propagation of polarized gamma radiation in an acoustic field. KE, no. 4, 1976, 840-843.

347. Zhelnov, B. L., A. P. Kazantsev, and G. I. Surdutovich (73). Shortwave laser based on the recoil effect. ZhTF P, no. 12, 1976, 557-560.

L. GENERAL LASER THEORY

348. Akhmanov, S. A., V. B. Pakhalov, and A. S. Chirkin (2). Formation of spatial coherence of laser radiation on passing through the lasing threshold. ZhETF P, v. 23, no. 7, 1976, 391-395.

349. Apanasevich, P. A., and A. P. Nizovtsev (3). Non-Markóvian character of relaxation processes and its spectroscopic evidence. KE, no. 4, 1976, 760-762.

350. Bogdanov, Ye. V., V. V. Grigor'yants, M. Ye. Zhabotinskiy, V. A. Zyatitskiy, and R. K. Kazaryan (0). Computer-analytical calculation of the gain in an active medium, allowing for the Stark structure at operating levels. IN: Sb 18, 208-219. (RZhRadiot, 4/76, 4Ye199)

351. Bonch-Bruyevich, A. M., S. G. Przhibel'skiy, V. A. Khodovoy, and V. V. Khromov (0). Inelastic scattering of light and the transition of colliding atoms in the bound molecular state. KE, no. 4, 1976, 763-768.

352. Delone, G. A., N. L. Manakov, M. A. Preobrazhenskiy, and L. P. Rapoport (1). Polarization effects in multiphoton ionization of alkali atoms. ZhETF, v. 70, no. 4, 1976, 1234-1242.

353. Delone, N. B. (1). Multiphoton ionization of atoms. Priroda, no. 4, 1976, 14-26.

354. Dobrzanski, M. M., and K. Lenczewska (NS). Quantum sources of ultrasonic waves. Archiwum akustyki, v. 10, no. 3, 1975, 205-215. (RZhF, 3/76, 3Zh647)

355. Geller, Yu. I., and A. K. Popov (210). Induced narrow nonlinear resonances in a continuum. KE, no. 5, 1976, 1129-1131.

356. Golubeva, N. S., L. F. Krinitsyna, B. L. Sozinov, and N. A. Tkach (24). Effect of nonequilibrium population inversion on gain in a laser traveling wave amplifier. IN: Tr 1, 73-78. (RZhF, 6/76, 6D1152)

357. Golubeva, N. S., V. N. Rozhdestvin, V. I. Ikryannikov, and V. P. Lebedenko (24). Time characteristics of coupled lasers in a single pulse regime. IN: Tr 1, 78-82. (RZhF, 6/76, 6D1158)

358. Golubeva, N. S., R. Sh. Zagidullin, V. A. Korostelev, and V. I. Ikryannikov (24). Analysis of processes in a solid state laser with variable losses according to the harmonic law. IN: Tr 1, 83-86. (RZhF, 6/76, 6D1157)

359. Gordon, Ye. B., and Yu. L. Moskvin (67). Two-quantum laser amplifiers. ZhETF, v. 70, no. 5, 1976, 1729-1741.

360. Ingarden, R. S. (NS). Review of the newest laser theories. IN: Sb 9, 113-124. (RZhF, 6/76, 6D1142)

361. Kostometov, G. P., and N. N. Rozanov (0). Amplification of spontaneous emission in disk laser amplifiers. KE, no. 6, 1976, 1285-1289.

362. Lugovoy, V. N., and V. N. Strel'tsov (1). Possibility of population inversion in a two-level system in a wideband pumping field. KE, no. 5, 1976, 1051-1055.

363. Manakov, N. L., V. D. Ovsyannikov, and L. P. Rapoport (137). Theory of excitation for a quasi-energetic spectrum of atoms in an intense monochromatic field. ZhETF, v. 70, no. 5, 1976, 1697-1712.

364. Rautian, S. G., and A. M. Shalagin (72). Radiation from atoms during collisions with particles polarized by a laser field. KE, no. 4, 1976, 757-759.

365. Reshetnyak, S. A. (1). Problems of kinetics in plasma- and rotational transition-lasers. IN: Tr 7, 146-215. (LC)

366. Strizhnev, V. S., and D. P. Vranchev (0). Kinetics of angular divergence of radiation in a generator-amplifier system and its components. IN: Sb 5, 74-76. (RZhRadiot, 4/76, 4Ye216)

367. Yevseyev, I. V., V. M. Yermachenko, and V. K. Matskevich (16). Polarization effects in a strong field during dual-mode lasing. ZhETF, v. 70, no. 5, 1976, 1720-1728.

368. Zon, B. A. (137). Resonant scattering of electrons by atoms in a laser radiation field. ZhTF, no. 4, 1976, 875-877.

II. LASER APPLICATIONS

A. BIOLOGICAL EFFECTS

369. Khokhlov, I. V., V. A. Mostovnikov, and A. N. Rubinov (0). Characteristics of the action of laser radiation on the genetic apparatus of cells on human tissue. IN: Sb 5, 208. (RZhRadiot, 4/76, 4Ye462)

370. Komarova, A. A., and T. F. Markova (381). Clinical-physiological characteristics of the state of the nervous system of persons servicing lasers. Gigiyena truda i professional'nyye zabolevaniya, no. 2, 1976, 8-12.

371. Linnik, L. A., Yu. A. Maryshev, and M. M. Loyko (0). Fluorescence angiography as a method for studying damage to the retina caused by the radiation of a tunable organic dye laser. IN: Sb 5, 209-210. (RZhRadiot, 4/76, 4Ye463)

372. Pletnev, S. D., and M. Sh. Abdurazakov (314). Experience in organizing a laser operating room and providing protection for the personnel. Gigiyena i sanitariya, no. 2, 1976, 102-104.

373. Shamayeva, G. G., and V. I. Chekhlov (19). Photoelectronic device for studying the reflectivity of biological specimens under the action of laser radiation. IN: Tr 8, 45-49. (RZhF, 4/76, 4D1440)

B. COMMUNICATIONS

1. Beam Propagation in the Atmosphere

374. Abakumov, G. Z., V. I. Kozhenkov, A. P. Simonov, V. V. Fadeyev, and N. A. Fuks (0). Use of a flashlamp-pumped organic compound solution laser for determining the sizes of droplets in fogs. IN: Sb 5, 211-212. (RZhRadiot, 4/76, 4Ye430)

375. Abdel-khadi, K., B. Ya. Zel'dovich, A. A. Ovchinnikov, A. N. Sokol, and V. N. Sorokin (1). Absolute calibration of a distributed temperature sensor of optical path fluctuations. KE, no. 6, 1976, 1217-1225.

376. Akul'shina, L. G., O. A. Volkovitskiy, A. F. Nerushev, V. T. Pechorin, and A. M. Skripkin (220). Effect of the divergence of a laser beam on the dispersal of a cloud medium. IN: Tr 9, 128-138. (RZhF, 6/76, 6D1039)

377. Akul'shina, L. G., O. A. Volkovitskiy, A. M. Skripkin, V. T. Pechorin, and G. I. Shchelchkov (220). Effect of the microstructure of a cloud medium on the time for its dispersal by laser radiation. IN: Tr 9, 178-184. (RZhF, 6/76, 6D1037)

378. Almayev, R. Kh. (220). Variation in the particle concentration of an aerosol medium under the action of a gradient force. IN: Tr 9, 70-76. (RZhF, 6/76, 6D1042)

379. Aref'yev, V. N., and V. I. Dianov-Klokov (220). Evaluation of the effect of meteorological factors on the attenuation of 10.6 μ laser radiation by a water vapor continuum in a "pure" atmosphere. KE, no. 4, 1976, 923-926.

380. Armand, S. A. (0). Fog dispersal under thermal self-defocusing conditions. RiE, no. 6, 1976, 1162-1169.

381. Bel'ts, V. A., O. M. Matveyev, and V. P. Nikolayev (220). Study of thermal refraction from propagation of a CO_2 laser beam in fog. IN: Tr 9, 139-146. (RZhF, 6/76, 6D1034)

382. Dugin, V. P., V. S. Maksimyuk, S. O. Mirumyants, and N. K. Nikiforova (220). Anisotropy of scattering of light by artificial crystalline cloud formations (vertical illumination of the medium). IN: Tr 9, 184-189. (RZhF, 6/76, 6D1032)

383. Dugin, V. P., S. O. Mirumyants, and L. N. Pavlova (220). Experimental studies of back-scatter at 10.6 and 0.57 μ by artificial cloud formations. IN: Tr 9, 189-192. (RZhF, 6/76, 6D1058)

384. Godlevskiy, A. P., and V. A. Kapitanov (0). Study of the absorption spectrum in an atmosphere with high resolution in the ruby laser range. IN: Sb 19, 122-125. (RZhGeofiz, 5/76, 5B169)

385. Kamenogradskiy, N. Ye., and L. P. Semenov (220). Attenuated radiation at 0.63 μ in a dispersed zone formed in a liquid-droplet medium. IN: Tr 9, 56-69. (RZhF, 6/76, 6D1041)

386. Kaul', B. V., and I. V. Samokhvalov (0). Use of a lidar for monitoring the level of industrial air-pollution. IN: Sb 19, 87-90. (RZhRadiot, 6/76, 6Ye196)

387. Kolomiyets, S. M. (220). Characteristics of image transmission through a laser-evaporable aqueous aerosol. IN: Tr 9, 171-178. (RZhF, 6/76, 6D1030)

388. Lobkova, L. M. (0). Evaluating the resolution of optical antennas caused by the effect of a turbulent atmosphere. IN: Sb 20, 47-50. (RZhRadiot, 6/76, 6Ye100)

389. Makhotkina, Ye. L., and S. V. Zvereva (386). Experiment on the statistical characteristics of fluctuations in atmospheric transparency. IN: Tr 10, 82-88. (VNIIGMI-MTsD, 1/76, 261)

390. Marichev, V. N., and A. V. Sosnin (0). Lidar measurement of moisture in a free atmosphere by a differential absorption method. IN: Sb 19, 111-113. (RZhGeofiz, 5/76, 5B51)

391. Meshcheryakov, G. A. (115). Geometry of an optical beam. IN: Sb 21, 36-42.

392. Nerushev, A. F., and L. P. Semenov (220). Refraction of an optical beam in the flow of an evaporating liquid-droplet medium. IN: Tr 9, 77-85. (RZhF, 6/76, 6D1033)

393. Nerushev, A. F., and L. P. Semenov (220). Propagation of an optical beam in an evaporating liquid-droplet medium in the presence of "wind" refraction. KE, no. 6, 1976, 1226-1232.

394. Ozerenskiy, A. P., L. M. Romanova, and V. P. Snykov (220). Optical field in a wet fog outside the geometrical zone of propagation of a collimated laser beam. IN: Tr 9, 147-161. (RZhF, 6/76, 6D1029)

395. Petrushin, A. G. (220). Scattering indicatrices of 10.6 μ radiation by chaotically oriented ice cylinders. IN: Tr 9, 86-94. (RZhF, 6/76, 6D1031)

396. Ploshay, L. L., V. G. Chertov (135), and A. B. Shereshev (120). Study of the effect of refraction on the position of a reference direction in an underground pipeline. IVUZ Geod, no. 5, 1975, 53-58.

397. Snykov, V. P. (220). Apparatus for studying the brightness field of multiply-scattered light in an artificial fog chamber. IN: Tr 11, 82-88. (VNIIGMI-MTsD, 4/76, 180)

398. Svetogorov, D. Ye. (220). Formation of dispersed zones in clouds and fogs under conditions of a model explosion of a droplet. IN: Tr 9, 44-55. (RZhF, 6/76, 6D1036)

399. Tabarin, V. A., A. I. Sapozhnikov, and B. I. Fedorov (0). Study of the coefficients of reflection of natural materials at 3.39 μ. ZhPS, v. 24, no. 5, 1976, 921-923.

400. Vanin, N. V., A. V. Migulin, and S. Yu. Rybakov (2). Laser probing of the atmosphere by a method of comparative absorption. FAiO, no. 4, 1976, 389-394.

401. Vasil'yev, V. P., and E. L. Muro (19). Device for measuring atmospheric transparency. Otkr izobr, no. 6, 1976, 503196.

402. Volkovitskiy, O. A., V. V. Denisova, Ye. V. Ivanov, and M. P. Kolomeyev (220). Experimental study of the condensation effect from the action of CO_2 laser radiation on cloud media. IN: Tr 9, 95-107. (RZhF, 6/76, 6D1040)

403. Volkovitskiy, O. A., O. M. Matveyev, V. T. Pechorin, and A. M. Skripkin (220). Study of the speed of dispersal of a cloud medium by 10.6 μ laser radiation. IN: Tr 9, 108-115. (RZhF, 6/76, 6D1038)

404. Volkovitskiy, O. A., N. Ye. Kamenogradskiy, V. K. Mamonov, and L. P. Semenov (220). Transparency of a dispersed cloud medium. IN: Tr 9, 116-127. (RZhF, 6/76, 6D1035)

405. Vorob'yev, F. A., and R. I. Sokolovskiy (0). Quantum phenomena in the transmission of coherent radiation. Part 3. OiS, v. 40, no. 5, 1976, 866-870.

406. Voytsekhovskaya, O. K., and A. A. Mitsel' (0). Analysis of various results in calculating the spectral coefficients of absorption of laser radiation in a real atmosphere. IN: Sb 19, 114-117. (RZhGeofiz, 5/76, 5B167)

407. Yakushkin, I. G. (19). Strong fluctuations in the field intensity of an optical beam in a turbulent atmosphere. IVUZ Radiofiz, no. 3, 1976, 384-392.

408. Zuyev, V. Ye., and I. V. Samokhvalov (0). Current state of the problem of laser probing of the atmosphere. IN: Sb 22, 47-53. (RZhF, 1/76, 1/76, 1Zh306)

2. Beam Propagation in Liquids

409. Arakelyan, S. M., V. B. Pakhalov, and A. S. Chirkin (0). Measuring the intensity of scattered light in the direction of an incident beam. OiS, v. 40, no. 6, 1976, 1055-1059.

410. Gol'din, Yu. A., V. V. Bacherikov, M. I. Vortman, P. I. Zudkov, V. E. Kagayn, Yu. A. Makarov, and V. N. Pelevin (0). Brightness of a nonstationary optical field in the axis of a narrow beam in the ocean. IN: Sb 23, 148-153.

411. Gol'din, Yu. A., V. V. Bacherikov, V. I. Voytov, M. I. Vortman, V. E. Kagayn, Yu. A. Makarov, V. N. Pelevin, and Ye. M. Shvom (0). Some results from laser probing of surface waters while the ship is under way. IN: Sb 23, 160-163.

412. Kopelevich, O. V., Yu. L. Mashtakov, and V. I. Burenkov (0). Study of the vertical stratification of scattering properties of seawater by means of a submersible small angle meter for measuring scattering. IN: Sb 23, 54-60.

413. Kopelevich, O. V., Yu. Ye. Ochakovskiy, and K. S. Shifrin (0). Optics of the ocean. IN: Sb 24, 113-150.

414. Masyrov, A. M. (0). Laser method for cavitation detection. IN: Sb 25, 101-106. (RZhMekh, 6/76, 6B1383)

3. Theory of Propagation

415. Almayev, R. Kh., A. F. Nerushev, and L. P. Semenov (220). Propagation of radiation in a randomly inhomogeneous medium with a regular inhomogeneity in the average dielectric constant. IN: Tr 9, 21-33. (RZhF, 6/76, 6D1028)

416. Bakut, P. A., K. N. Sviridov, and I. N. Troitskiy (0). Measuring the statistical parameters of turbulent media by optical methods. Metrologiya, no. 6, 1976, 40-45.

417. Donchenko, V. A., and P. A. Pal'yanov (0). Propagation of ultrashort optical radiation pulses in scattering media. IN: Sb 19, 118-121. (RZhGeofiz, 5/76, 5B168)

418. Gurvich, A. S., V. Kan, and B. P. Potapov (64). Measuring a four-point coherency function of laser radiation field in a turbulent medium. IVUZ Radiofiz, no. 3, 1976, 393-400.

419. Ivanov, A. P., and A. B. Gavrilovich (3). Study of the laws of forming optical fluxes in a layered scattering medium illuminated by a diffuse source. IAN B, no. 1, 1976, 80-85.

420. Lariontsev, Ye. G., and V. N. Serkin (98). Change in the frequency-modulated pulse shape of optical pulses during the amplification process. KE, no. 6, 1976, 1290-1294.

421. Mirolyubov, R. K. (0). Primary criteria for reducing the divergence of a quasiparallel monochromatic (laser) beam. Cited in IVUZ Fiz, no. 5, 1976, 157-158.

422. Piekara, A. H. (NS). Self-channelization of light in gases, liquids and solids. IN: Sb 9, 9-52. (RZhF, 6/76, 6D1090)

423. Pleshanov, Yu. V., and V. D. Samoylov (7). Optical probing of a diffusion screen in a scattering medium. OMP, no. 3, 1976, 13-15.

424. Rozanov, N. N., and V. A. Smirnov (0). Degeneration of bounded laser beams in a nonlinear medium. ZhETF, v. 70, no. 6, 1976, 2060-2073.

425. Svirkunov, P. N. (220). Propagation of radiation in a medium with hot spots. IN: Tr 9, 34-43. (RZhF, 6/76, 6D1027)

4. Systems

426. Anikin, V. I., and A. P. Gorobets (0). Study of optical-band microwaveguides manufactured by a method of solid-state diffusion. Mikroelektronika, v. 5, no. 2, 1976, 194-196. (RZhRadiot, 6/76, 6Ye130)

427. Bazarnyy, Ye. M., V. I. Borodulin, V. V. Grigor'yants, Yu. V. Gulyayev, M. Ye. Zhabotinskiy, G. A. Ivanov, A. V. Iyevskiy, A. M. Klestov-Nadeyev, V. N. Listvin, V. T. Potapov, A. V. Sokolov, V. P. Sosnin, M. F. Stel'makh, D. P. Tregub, A. A. Fomichev, V. I. Shveykin, and B. B. Elenkrig (0). Glass fiber optical channel for transmitting nanosecond pulsed signals. RiE, no. 6, 1976, 1304-1306.

428. Bey, N. A., and Yu. M. Shavrukov (24). Analysis of the properties of one-dimensional bundles of optical fibers. IN: Tr 1, 110-113. (RZhRadiot, 5/76, 5Ye212)

429. Blok, A. S., O. M. Zyuzin, E. I. Krupitskiy, G. Ye. Korbukov, and V. S. Emdin (0). Experiment in developing a multichannel coherent optical analyzer for a hybrid image-recognition system. IN: Sb 17, 3-4. (RZhRadiot, 4/76, 4Ye400)

430. Bogorodskiy, V. V., M. A. Kropotkin, and T. Yu. Sheveleva (110). Study of the reflection of laser radiation from an oil-polluted water surface. IN: Tr 2, 49-53. (RZhRadiot, 4/76, 4Ye432)

431. Chagulov, V. S., M. Ye. Perel'man, and Yu. M. Blagidze (161). Optical characteristics of dielectric lightguides. IN: Tr 12, 35-40. (RZhRadiot, 5/76, 5Ye214)

432. Czyz, M. (NS). Optoelectronics and its application. IN: Sb 9, 125-143. (RZhF, 6/76, 6D1704)

433. Golubev, A. N., and M. T. Prilepin (120). Optical DME systems with an active reflector. IVUZ Geod, no. 4, 1975, 111-117.

434. Kokurin, Yu. L., V. V. Kurbasov, and A. N. Sukhanovskiy (1). Second Meeting on Instrumentation Problems in Laser Ranging of Objects in Space, Prague, 11-15 August 1975. KE, no. 5, 1976, 1158-1161.

435. Kokurin, Yu. L. (1). Current status and prospects for studies in laser ranging of the moon (review). KE, no. 6, 1976, 1189-1210.

436. Korshunov, A. V. (116). Possibility of using a ruby laser for aircraft navigation. IN: Tr 13, 72-77. (RZhRadiot, 5/76, 5Ye106)

437. Kuznetsov, A. A., and A. B. Tsibulya (7). Adjusting the position of a beam in a self-focusing fiber. OMP, no. 3, 1976, 78-79.

438. Lavrinovich, B. M. (7). Calculating the integral coefficient of reflection of tubular dielectric lightguides. OMP, no. 3, 1976, 77-78.

439. Lemanov, V. V., B. V. Sukharev, V. V. Kludzin, and S. V. Kulakov (0). Acoustooptic control of laser radiation in lithium niobate lightguides. ZhTF P, no. 12, 1976, 532-536.

440. Mit'kovets, N. N. (0). Studies of the SM-3 optical DME. GiK, no. 3, 1976, 15-20.

441. Movsesyan, R. A., and V. A. Papyan (0). Some characteristics of SHF modulators of light using $LiNbO_3$ crystals for electrooptic DME's. GiK, no. 3, 1976, 20-22.

442. Parygin, V. N., and Kh. Gassab (2). Theory of a laser with an optical delay line. VMU, no. 6, 1975, 659-665.

443. Pavlova, Ye. I. (0). Possibility of using optical radars for solving problems of a hydrological character. IN: Sb 26, 73-78. (RZhGeofiz, 5/76, 5V268)

444. Podgornyy, V. I. (382). Remote geodetic measurements during natural tests of buildings. IVUZ Geod, no. 5, 1975, 45-51.

445. Ryazantsev, G. V., and V. S. Kukhmistrov (128). Television device for displaying graphic information by a laser beam on a vidicon. IN: Tr 14, 136-139. (RZhRadiot, 5/76, 5Ye256)

446. Sklyarov, O. K. (7). Effect of thermal action on the damping and polarization of optical waves propagating in a round glass fiber. OMP, no. 3, 1976, 12-13.

447. Smolenskiy, G. A., E. P. Stinser, M. A. Garsia, A. N. Ageyev, S. A. Mironov, O. N. Dikarev, Ye. S. Sher, and A. V. Antonov (4). Efficient conversion of optical modes in a ferrite film by a homogeneous magnetic field. ZhTF P, no. 7, 1976, 289-292.

448. Tarasov, R. P., V. P. Varava, and Ye. I. Yershov (0). Theory of radiation transfer in lightguides. Part 1. Cylindrical lightguides. ZhTF, no. 5, 1976, 937-946.

449. Trevogo, I. S., and P. M. Shevchuk (0). Problems of the accuracy of linear measurements by the YeOK 2000 optical DME. GiK, no. 1, 1976, 26-27.

450. Urazbayev, T. T. (202). Radio-frequency radiation from a resonant medium during conversion of laser radiation by telescope. IAN Uzb, no. 1, 1976, 48-51.

451. Vard'ya, V. P., and P. P. Shevchenko (0). Experimental study of crosstalk in multibeam transmission over a lightguide communication line. RiE, no. 4, 1976, 867-870.

452. Volosov, D. S., M. V. Tsivkin, and M. B. Ol'vovskaya (323). Study of the optical scheme of a device for recording an image by a scanning laser beam. IN: Tr 15, 12-22. (RZhRadiot, 6/76, 6Ye131)

453. Zakharov, V. M., and O. K. Kostko (0). Lidar for studying the sea surface. Morskoy sbornik, no. 2, 1976, 81-85.

454. Zaskal'ko, O. P. (0). Laser video player. Priroda, no. 1, 1976, 56-57.

455. Zlenko, A. A., A. M. Prokhorov, A. A. Spikhal'skiy, and A. A. Sychugov (1). E-wave radiation in the corrugated portion of a waveguide. KE, no. 5, 1976, 1056-1061.

C. COMPUTER TECHNOLOGY

456. Andriyesh, A. M., V. M. Ganin, B. T. Kolomiyets, V. M. Lyubin, and D. I. Tsiulyanu (0). Use of three-layered structures based on arsenic chalcogenides for recording optical information. IN: Sb 12, 29-31. (RZhRadiot, 5/76, 5Ye375)

457. Babenko, N. K., and V. N. Nishchenets (0). Schemes for recording microholograms in long-term holographic memories. IN: Sb 27, 11-26. (RZhF, 6/76, 6D1344)

458. Babenko, N. K., A. D. Kolomiyets, and V. I. Lutoshkin (0). Media for recording relief-phase microholograms in long-term holographic memories. IN: Sb 27, 26-34. (RZhF, 6/76, 6D1364)

459. Grekhov, Yu. N., P. Ye. Kotlyar, Ye. S. Nezhevenko, V. I. Fel'dbush, and N. I. Shadeyev (75). Space-time modulator of light using a $Bi_{12}GeO_{20}$ single crystal. ZhTF P, no. 10, 1976, 457-462.

460. Kharchenko, A. A., and V. S. Myl'nikov (0). Photoelectric memory in crystals of transparent dielectrics under high power optical excitation. IN: Sb 12, 47-48. (RZhRadiot, 4/76, 4Ye320)

461. Kikineshi, A. A., D. G. Semak, and I. D. Turyanitsa (0). Reversibility of optical recording on chalcogenide layers. IN: Sb 12, 41. (RZhRadiot, 5/76, 5Ye376)

462. Silin, S. M., and V. A. Chadyuk (106). Model of a holographic memory. Kiyevskiy politekhnicheskiy institut. Vestnik. Seriya radioelektroniki, no. 13, 1976, 107-108. (RZhRadiot, 5/76, 5Ye360)

463. Yelinson, M. I., N. A. Morozov, and O. N. Fillipova (0). Electrooptic diffraction deflector. IN: Sb 14, 256-257. (RZhRadiot, 4/76, 4Ye242)

D. HOLOGRAPHY

464. Akimakina, L. V., L. G. Dudareva, V. G. Komar, O. B. Serov, and G. A. Sobolev (231). Projection of three-dimensional holographic and raster images on lens-raster screens. TKiT, no. 3, 1976, 16-20.

465. Apanasevich, P. A., and A. A. Afanas'yev (3). Optically induced diffraction during two-photon absorption in semiconductors. FTT, no. 4, 1976, 998-1003.

466. Aristov, V. V., and G. A. Ivanova (0). Diffraction theory of holography. IN: Sb 28, 21-49. (RZhF, 6/76, 6D1329)

467. Aristov, V. V., and V. I. Teleshevskiy (0). Geometrical analysis of three-dimensional diffraction in a Fourier space. IN: Sb 17, 44-45. (RZhRadiot, 4/76, 4Ye403)

468. Ashcheulov, Yu. V., V. I. Sukhanov, I. V. Tunimanova, and V. A. Tsekhomskiy (0). Study of various properties of holograms recorded on photochromic glass activated by silver halide crystals. IN: Sb 29, 134-137. (RBL, 5-6/76, 917)

469. Ashmarin, I. I., Yu. A. Bykovskiy, V. A. Gridin, Ya. Yu. Zysin, and A. I. Larkin (0). Pulsed holography with enhanced time resolution. IN: Sb 30, 71. (RZhFoto, 4/76, 4.46.283)

470. Baltrameyunas, R., Yu. Vaytkus, and K. Yarashyunas (49). Dynamic holographic lattices using excitons in CdSe. FTP, no. 5, 1976, 969-971.

471. Barachevskiy, V. A., and V. M. Kozenkov (0). Nonsilver and unconventional light-sensitive materials for holography and optical information processing. IN: Sb 29, 26-41. (RBL, 5-6/76, 917)

472. Barachevskiy, V. A., and V. M. Kozenkov (0). Status and prospects for developing non-silver and unconventional recording media for holography. IN: Sb 28, 330-353. (RZhF, 6/76, 6D1350)

473. Barachevskiy, V. A. (0). Photochromic materials and their application in holography. IN: Sb 28, 399-454. (RZhF, 6/76, 6D1362)

474. Bazhenov, Yu. M., N. I. Kirillov, Ye. M. Lyubimov, and A. M. Revonchenkov (0). Method for obtaining holographic interferograms. Author's certificate USSR, no. 449651, issued 30 June 1975. (RZhRadiot, 5/76, 5Ye370)

475. Bekker, A. M., and B. G. Turukhano (0). Modeling of the process of optical filtering and optimization of the parameters for recording holographic filters. IN: Sb 28, 165-177. (RZhF, 6/76, 6D1385)

476. Belov, V. V., V. M. Kozenkov, and V. A. Barachevskiy (0). Recording of holograms on organic photochromic films by means of a nitrogen laser. IN: Sb 29, 123-127. (RBL, 5-6/76, 917)

477. Belov, V. V., V. A. Barachevskiy, N. I. Bolondayeva, I. Ye. Gaponenko, V. M. Kozenkov, P. P. Kisilitsa, A. A. Pankratov, and V. Z. Chuchin (0). Photographic and holographic properties of a photosensitive donor-acceptor type material. IN: Sb 12, 49-51. (RZhRadiot, 4/76, 4Ye360)

478. Belyy, V. I., O. A. Gudayev, A. N. Potapov, and I. A. Fokina (0). Study of the properties of various organic recording media. IN: Sb 17, 47-48. (RZhRadiot, 4/76, 4Ye387)

479. Berdonosov, V. A., V. I. Gorbunov, and A. K. Stoyanov (0). Holographic synthesis of three-dimensional x-ray images. IN: Sb 28, 178-188. (RZhF, 6/76, 6D1366)

480. Bletskan, D. I., P. P. Pogoretskiy, I. M. Migolinets, I. F. Kopinets, Ye. N. Sal'kova, M. Yu. Sichka, and T. I. Shkoba (0). Recording of holograms on $A^{IV}B^{VI}$ and $A^{V}B_3^{VII}$ type semiconductor laminated crystals and on glasses based on them. IN: Sb 30, 90. (RZhFoto, 4/76, 4.46.39)

481. Bogomolov, K. S., L. P. Vakhtanova, E. A. Gruz, and V. D. Petrov (0). Phase holograms on type VRM photoplates. IN: Sb 29, 44-48. (RBL, 5-6/76, 917)

482. Borza, D. N. (NS). Quantitative interpretation of fringes in time-average holographic interferometry of vibrating objects. Revue roumaine de physique, v. 20, no. 7, 1975, 691-695. (RZhF, 5/76, 5D1311)

483. Broun, Zh. L., T. N. Karnaukh, and V. A. Sagarin (0). Study of photolysis and formation of latent images on PE-1-633 "transparent" photoplates. IN: Sb 29, 86-88. (RBL, 5-6/76, 917)

484. Bryskin, V. Z., A. V. Groznyy, V. G. Sidorovich, and D. I. Stasel'ko (0). Effective amplification of weak optical beams by means of dynamic three-dimensional holograms with a thermal mechanism of recording. ZhTF P, no. 12, 1976, 561-565.

485. Butusov, M. M., and A. I. Ioffe (29). Study of the parameters of holographic periodical structure image-multipliers. KE, no. 5, 1976, 969-974.

486. Buynov, G. N., and F. A. Sattarov (0). Study of the effect of variations in the thickness of the photographic emulsion layer on the resolution of a hologram. ZhNiPFiK, no. 2, 1976, 118-121.

487. Bykhovskiy, V. K. (0). Holography and prospective methods of control. IN: Sb 28, 131-164. (RZhF, 6/76, 6D912)

488. Bykovskiy, Yu. A., V. A. Yelkhov, and A. I. Larkin (0). Semiconductor laser as a radiation source for holographic experiments and instruments. IN: Sb 28, 260-270. (RZhF, 6/76, 6D1349)

489. Bykovskiy, Yu. A., A. I. Larkin, and V. I. Yelkhov (16). Method for holographic recording of fast-flow processes. Author's certificate USSR, no. 391527, issued 19 April 1975. (RZhRadiot, 4/76, 4Ye329)

490. Chernov, V. P., A. I. Bessonova, K. G. Zakharov, and B. B. Gorbatenko (0). Problem of increasing the depth of field of a focused image hologram with a side reference beam. ZhNiPFiK, no. 2, 1976, 110-112.

491. Chirkov, L. Ye. (0). Theory of three-dimensional holograms. IN: Sb 17, 45-47. (RZhRadiot, 4/76, 4Ye339)

492. Davydov, A. M., I. A. Pan'shin, Ye. A. Podpalyy, and T. F. Stankevich (0). Method for suppressing the noise component of Fourier holograms recorded in discrete media. IN: Sb 30, 86. (RZhFoto, 3/76, 3.46.68)

493. Denisyuk, Yu. N. (0). Some properties of aspectograms as applied to the problem of synthesizing composite holograms. IN: Sb 17, 87-89. (RZhRadiot, 4/76, 4Ye347)

494. Deryugin, I. A., and V. N. Kurashov (0). Interferometric method of recording and reconstructing images in optics. IN: Sb 28, 83-101. (RZhF, 6/76, 6D1337)

495. Deygen, M. F., M. S. Soskin, S. G. Odulov, V. B. Markov, and B. D. Shanina (0). Study of the conditions of recording and properties of holograms in $LiNbO_3$. IN: Sb 17, 106-107. (RZhRadiot, 4/76, 4Ye341)

496. Gan, M. A., and Yu. Ye. Kuzilin (0). Radiation method for analyzing holographic optical elements. ZhNiPFiK, no. 3, 1976, 202-205.

497. Ganin, V. M., S. B. Gurevich, N. N. Il'yashchenko, B. T. Kolomiyets, V. M. Lyubin, M. V. Sukharev, and V. P. Shilo (0). Photostructural transformations in chalcogenide glassy semiconductors and their use for recording optical information. IN: Sb 12, 32-34. (RZhFoto, 4/76, 4.46.51)

498. Gaponenko, I. Ye., S. A. Gurov, N. N. Drobyshevskaya, and V. M. Kozenkov (0). Properties of photoresistors for use in holography. IN: Sb 12, 52-53. (RZhRadiot, 4/76, 4Ye358)

499. Gofayzen, O. V., A. V. Mindel', and V. F. Brin'ko (0). Reconstruction of a wave front of Fourier holograms transmitted over a television channel. Radiotekhnika, no. 4, 1976, 5-9.

500. Grishanin, B. A. (0). Quantum effects in holography. IN: Sb 28, 118-128. (RZhF, 6/76, 6D1328)

501. Guether, R., and S. Kusch (NS). Kinematic theory of Gaussian beams in three-dimensional holography. KE, no. 5, 1976, 949-959.

502. Ivakin, Ye. V., A. S. Rubanov, I. P. Petrovich, and S. Ye. Dromashko (0). Nonstationary thermal holograms. IN: Sb 29, 152-158. (RBL, 5-6/76, 917)

503. Ivakin, Ye. V., Ye. G. Moiseyenko, and A. S. Rubanov (0). High-speed holographic correlator operating in real time. IN: Sb 17, 21-23. (RZhRadiot, 4/76, 4Ye340)

504. Kaplun, L. Ya., Yu. A. Breslav, and N. V. Pospelova (96). Colloidal stability of superfine-grained holographic emulsions. IN: Tr 16, 36-49. (RZhF, 4/76, 4D1342)

505. Kikineshi, A. A., D. G. Semak, I. D. Turyanitsa, I. I. Turyanitsa, V. V. Khiminets, and D. V. Chepur (0). Use of chalcogenide glass for holographic recording. IN: Sb 30, 91. (RZhFoto, 4/76, 4.46.52)

506. Kirillov, N. I., and Ye. M. Lyubimov (96). New holographic process by means of reflecting photolayers. TKiT, no. 4, 1976. 19-22.

507. Kirillov, N. I. (0). High resolution silver halide photomaterials for holography, and their processing. IN: Sb 29, 5-25. (RBL, 5-6/76, 917)

508. Kirillov, N. I., N. V. Vasil'yeva, Ye. I. Senchenkov, and Ye. M. Fel'dsherov (0). Electron microscopic and microscopic study of "transparent" emulsions and PE-1 photomaterials for holography. IN: Sb 29, 54-59. (RBL, 5-6/76, 917)

509. Klement'yev, F. M., and P. D. Ponomarev (0). Fine structure of an image in essentially nonlinear holography. IN: Sb 31, 10-16. (RZhRadiot, 4/76, 4Ye325)

510. Klykovskiy, O. V., Ye. D. Pigulevskiy, and A. V. Kharitonov (0). Effect of discrete selection and binary quantum phase of the wave field in longwave holography. IN: Sb 17, 113-114. (RZhRadiot, 4/76, 4Ye366)

511. Komar, V. G. (231). Schematic diagrams for a three-dimensional holographic motion picture theater. IN: Tr 17, 131-160. (RZhFoto, 3/76, 3.46.245)

512. Korsakov, V. V., V. I. Nalivayko, Ye. F. Pen, V. G. Remesnik, and V. G. Tsukerman (0). Reversible recording of holograms in chalcogenide films. IN: Sb 29, 143-147. (RBL, 5-6/76, 917)

513. Kostyshin, M. T., P. F. Romanenko, N. G. Khotynenko, S. A. Dembovskiy, and G. Z. Vinogradova (0). Photographic properties of TlAsSn-Ag light-sensitive systems and prospects for their use in holography. IN: Sb 29, 147-151. (RBL, 5-6/76, 917)

514. Kotenko, V. P., V. L. Shurman, S. A. Kutolin, A. M. Vasil'yev, V. N. Nekuryashchev, and V. A. Nabytnov (0). Preparing and studying glassy semiconductor films for recording holograms. IN: Sb 12, 45. (RZhRadiot, 4/76, 4Ye361)

515. Kozenkov, V. M., V. V. Belov, Ye. D. Kvasnikov, A. A. Yastrebov, and V. A. Barachevskiy (0). Apparatus for measuring sensitometric and holographic characteristics of light-sensitive recording media. IN: Sb 29, 114-123. (RBL, 5-6/76, 917)

516. Kozenkov, V. M., V. A. Barachevskiy, and I. Ye. Gaponenko (0). Irreversible organic photosensitive media for holography. IN: Sb 28, 455-495. (RZhF, 6/76, 6D1351)

517. Kozenkov, V. M., V. A. Barachevskiy, V. V. Belov, T. M. Ivanova, Ye. D. Kvasnikov, P. P. Kisilitsa, and A. A. Yastrebov (0). Recording of holograms on photochromic polymer layers of mercury dithizonate. IN: Sb 17, 48-50. (RZhRadiot, 4/76, 4Ye355)

518. Kozikowski, S. (NS). Method for producing holographic diffraction lattices by means of laser radiation. Patent Poland, no. 72437, issued 15 November 1974. (RZhRadiot, 6/76, 6Ye224)

519. Kuvshinskiy, N. G., M. Yu. Bazhenov, and N. I. Sokolov (0). Holographic recording on thermoplastic media. IN: Sb 28, 354-381. (RZhF, 6/76, 6D1360)

520. Markov, V. B., S. G. Odulov, and M. S. Soskin (0). Recording of phase holograms in lithium niobate crystals. IN: Sb 29, 127-134. (RBL, 5-6/76, 917)

521. Maslenkova, N. G., A. S. Petrenko, I. F. Tolkacheva, I. Ye. Gaponenko, and N. I. Kirillov (0). Study of amplification, attenuation and shading processes in holograms. IN: Sb 29, 110-114. (RBL, 5-6/76, 917)

522. Nazarov, V. I., V. M. Rula, G. S. Safronov, and V. I. Kholodov (0). High speed radio-holographic system. IN: Sb 30, 70. (RZhFoto, 4/76, 4.46.43)

523. Nemtinov, V. B. (0). Group properties of holograms. IN: Sb 28, 102-117. (RZhF, 6/76, 6D1330)

524. Novikov, I. A., and R. G. Valiakhmetova (0). Some problems in obtaining highly dispersed photoemulsions. IN: Sb 29, 61-66. (RBL, 5-6/76, 917)

525. Papoyan, S. M., O. B. Serov, and G. A. Sobolev (231). Possibilities for using holograms in graphic techniques. IN: Tr 17, 184-192. (RZhFoto, 3/76, 3.46.304)

526. Petrov, V. D., L. P. Vakhtanova, K. S. Bogomolov, E. A. Gruz, and I. I. Kononenko (96, 231). Effect of the method of chemical-photographic processing and of the thickness of the emulsion layer on the characteristics of an image reconstructed by a reflected hologram. ZhNiPFiK, no. 2, 1976, 144-155.

527. Petrov, V. D. (0). Second All-Union Conference on Holography. Kiev, 1-3 October 1975. ZhNiPFiK, no. 2, 1976, 154-156.

528. Petrov, V. D. (0). Fast processing of photographic layers in obtaining reflected holograms. ZhNiPFiK, no. 3, 1976, 214-217.

529. Pon'kin, V. A., and V. G. Radziyevskiy (0). Using a holographic method in the optimal spatial-time processing of signals. RtE, no. 4, 1976, 864-867.

530. Presnyakov, Yu. P., and V. Ya. Tsarfin (141). Effect of refraction in holographic interferometry in diffusely coherent radiation. ZhNiPFiK, no. 2, 1976, 100-103.

531. Protas, I. R., Yu. A. Krakau, and V. I. Mikhaylova (0). LOI-1 and LOI-2 photographic plates for recording holograms. IN: Sb 29, 41-44. (RBL, 5-6/76, 917)

532. Rovinskaya, Yu. I., N. S. Gafurova, A. V. Borin, and V. P. Mikheyeva (0). FP-GV2 holographic film and its processing. IN: Sb 28, 321-323. (RZhF, 6/76, 6D1352)

533. Rozhkov, O. V. (0). Effect of nonlinearity in the phase-exposure characteristics of the recording material on the quality of the holographic process. IN: Sb 28, 244-259. (RZhF, 6/76, 6D1334)

534. Ryabova, R. V. (0). New photographic materials for holography. IN: Sb 28, 324-329. (RZhF, 6/76, 6D1352)

535. Serov, O. B., G. A. Sobolev, and V. N. Chursin (231). Study of high resolution photomaterials for motion picture holography. IN: Tr 17, 193-198. (RZhF, 4/76, 4D1266)

536. Shchukin, I. I. (0). Theory of partially achromatized zone plates prepared by a holographic method. IN: Sb 32, 93-103. (RZhF, 5/76, 5D1310)

537. Shvarts, K. K., A. O. Ozols, and D. P. Bandere (63). Microspectrophotometric studies of holograms on additively-colored KBr crystals. IAN Lat, no. 2, 1976, 11-14.

538. Shvarts, K. K., and Ya. Zh. Kristanson (0). Photochromic alkali-halide crystals. IN: Sb 29, 137-143 (RBL, 5-6/76, 917)

539. Sidorovich, V. G. (0). Diffraction efficiency of three-dimensional phase holograms. ZhTF, no. 6, 1976, 1306-1312.

540. Sobolev, G. A., V. N. Chursin, and T. S. Selitskaya (0). Using methods of experimental planning in studying photomaterials for motion picture holography. IN: Sb 29, 80-85. (RBL, 5-6/76, 917)

541. Sobolev, G. A., and M. G. Girina (0). Study of a latent holographic image. IN: Sb 29, 88-98. (RBL, 5-6/76, 917).

542. Sukhanov, V. I., Yu. V. Ashcheulov, and A. Ye. Petnikov (0). Study on the characteristics of recording holograms on lithium niobate crystals. IN: Sb 17, 103-104. (RZhRadiot, 4/76, 4Ye337)

543. Sukhman, Ye. P., V. G. Komar, O. B. Serov, and G. A. Sobolev (231). Prospects for using pulsed lasers to record motion picture holograms. IN: Tr 17, 171-183. (RZhFoto, 3/76, 3.46.66)

544. Tsyrul'nikov, D. A. (0). Holograms with wide spectral composition of the reconstructed image. ZhNiPFiK, no. 2, 1976, 103-106.

545. Tuchkov, L. T., V. M. Vyatkina, and G. G. Domontovich (0). Holographic stand. IN: Sb 33, 174-180. (RZhRadiot, 6/76, 6Ye218)

546. Usanov, Yu. Ye. (0). Effect of the composition of the developer on the properties of the holographic image. IN: Sb 29, 98-105. (RBL, 5-6/76, 917)

547. Vagin, L. N., and I. A. Mikhaylov (0). Single-step holographic miniaturization of documents with high reduction ratios (greater than 1:50). ZhNiPFiK, no. 2, 1976, 113-116.

548. Vagin, L. N., L. G. Nazarova, and R. V. Zhukova (0). Holographic condensation of scientific and technical information. IN: Sb 17, 84. (RZhRadiot, 4/76, 4Ye353)

549. Vanin, V. A., L. N. Vagin, and V. A. Korolev (0). Comparative holographic characteristics of high-resolution photoplates. IN: Sb 29, 69-79. (RBL, 5-6/76, 917)

550. Vanin, V. A., and L. N. Vagin (0). Copying of holograms. IN: Sb 28, 225-243. (RZhF, 6/76, 6D1346)

551. Vaytkus, Yu., Yu. Vishchakas, B. Petretis, and K. Yarashyunas (0). Formation of pulsed holograms on As_2Se_3 and In_3Te_3 semiconductor layers. IN: Sb 12, section 2, 73. (RZhFoto, 3/76, 3.46.65)

552. Veydenbakh, V. A., Ye. D. Voyeykova, R. R. Gerke, and G. I. Koval' (0). Photosensitive layers consisting of bichromate colloids applicable to holography. IN: Sb 12, 112-114. (RZhFoto, 3/76, 3.46.99)

553. Vlasov, N. G., and A. Ye. Shtan'ko (0). Current state and problems of holographic interferometry. IN: Sb 28, 191-211. (RZhF, 6/76, 6D1371)

554. Vlasov, N. G., and A. Ye. Shtan'ko (0). Estimating the errors of measurement in holographic interferometry of reflecting objects. IN: Sb 28, 212-222. (RZhF, 6/76, 6D1373)

555. Vlasov, V. I., A. A. Kikineshi, and D. G. Semak (136). Study of the characteristics of photorecording on chalcogenide layers of As-Se. ZhNiPFiK, no. 2, 1976, 139-141.

556. Volk, T. R., K. D. Kochev, and V. M. Fridkin (0). Mechanism of the optical distortion effect in barium-strontium niobate crystals. IN: Sb 17, 95-97. (RZhRadiot, 4/76, 4Ye402)

557. Volkov, I. V. (0). Use of speckle holography for measuring the components of natural constructions. IN: Sb 28, 305-318. (RZhF, 6/76, 6D1377)

558. Voloshinov, V. B., V. N. Parygin, and L. Ye. Chirkov (0). Characteristics of three-dimensional anisotropic holograms. IN: Sb 17, 93-95. (RZhRadiot, 4/76, 4Ye342)

559. Wenke, L., W. Schreiber, and G. Kuhne (NS). Pulsed holography using a multimode ruby laser. Feingeraetetechnik, v. 24, no. 12, 1975, 542-546. (RZhFoto, 4/76, 4.46.38)

560. Yaroslavskaya, N. N. (0). High-resolution emulsion for recording three-dimensional holograms. IN: Sb 29, 48-54. (RBL, 5-6/76, 917)

561. Yaroslavskaya, N. N., O. V. Andreyeva, and V. I. Sukhanov (0). Effect of thermal processing on the properties of photographic materials for recording three-dimensional holograms. IN: Sb 29, 106-110. (RBL, 5-6/76, 917)

562. Zagorskaya, Z. A. (0). Sublimation method for obtaining high-resolution photoemulsions. IN: Sb 29, 59-61. (RBL, 5-6/76, 917)

563. Zaydel', A. N., G. V. Ostrovskaya, and Yu. I. Ostrovskiy (7). Holographic interferometry of pulsed and periodic processes. IN: Tr 18. (KL, 14/76, 11566)

564. Zemtsova, E. G., and L. V. Lyakhovskaya (0). Recording three-dimensional holograms on LOI-2-63 photoplates. IN: Sb 29, 66-68. (RBL, 5-6/76, 917)

565. Zeylikovich, I. S., and N. M. Spornik (0). Holographic interferometry of phase objects with a diffusive scatterer in the reference branch. ZhTF, no. 5, 1976, 1054-1056.

E. LASER-INDUCED CHEMICAL REACTIONS

566. Ambartsumyan, R. V., V. M. Apatin, V. S. Letokhov, A. A. Makarov, V. I. Mishin, A. A. Puretskiy, and N. P. Furzikov (72). Selective two-step ionization of Rb atoms by laser radiation. ZhETF, v. 70, no. 5, 1976, 1660-1673.

567. Ambartsumyan, R. V., Yu. A. Gorokhov, V. S. Letokhov, G. N. Makarov, Ye. A. Ryabov, and N. V. Chekalin (72). Isotope separation in a strong IR laser field. KE, no. 4, 1976, 802-810.

568. Basov, N. G., V. T. Galochkin, A. N. Orayevskiy, and N. F. Starodubtsev (1). Characteristics of the SF_6 absorption spectrum under high intensities of IR radiation. ZhETF P, v. 23, no. 10, 1976, 569-574.

569. Bobak, W., A. Dubik, and L. Borowicz (NS). Identifying the spectra of chemical compounds by means of coherent optics. Optica applic., v. 4, no. 4, 1974(1975), 29-30. (RZhKh, 19AB, 5B320)

570. Brede, O., W. Helmstreit, and R. Mehnert (NS). Nanosecond pulsed radiolysis and laser photolysis of benzophenone in benzene and cyclohexane. Zeitschrift fuer physikalische Chemie, v. 256, no. 3, 1975, 505-512. (RZhKh, 19AB, 4/76, 4B1517)

571. Darmanyan, A. P., and V. A. Kuz'min (67). Study of sterically hindered photoisomers of polymethine dyes by a method of laser photolysis. DAN SSSR, v. 227, no. 5, 1976, 1139-1142.

572. Gol'danskiy, V. I., V. A. Namiot, and R. V. Khokhlov (67). Possibility of controlling surface phenomena by means of laser radiation. ZhETF, v. 70, no. 6, 1976, 2349-2359.

573. Gordiyets, B. F., A. I. Osipov, and V. Ya. Panchenko (2, 1). Law of active masses in a system of molecules dissociated in a laser radiation field. Teoreticheskaya i eksperimental'naya khimiya, no. 3, 1976, 307-316.

574. Grigor'yeva, V. N., E. I. Ivanov, and N. I. Kaliteyevskiy (12). Intersection-of-levels method and latest advances in high-resolution laser spectroscopy. UFN, v. 119, no. 1, 1976, 149-167.

575. Karlov, N. V., and A. M. Prokhorov (1). Laser isotope separation. UFN, v. 118, no. 4, 1976, 583-609.

576. Ksenzenko, V. I., A. V. Pankratov, and V. M. Shabarshin (179). Effect of inert dilutants on the threshold value of tetrafluorohydrazine reactions. IN: Tr 19, 53-58. (RZhKh, 19AB, 3/76, 3B1483)

577. Meisel, E., and V. Stert (NS). Narrow nonlinear resonances in the BCl_3 molecule. KE, no. 6, 1976, 1352-1354.

578. Orayevskiy, A. N., V. P. Pimenov, and V. A. Shcheglov (1). Effect of nonmonochromaticity on the character of a photochemical wave. ZhTF, no. 6, 1976, 1302-1305.

579. Pikel'ni, V. F., V. A. Kolosov, Yu. I. Kiryukhin, V. A. Kondrat'yev, V. A. Borovkova, and Ye. N. Tarasov (0). Nanosecond pulsed laser photolysis apparatus in the ultraviolet for a complex of photochemical studies. ZhPS, v. 24, no. 6, 1976, 1080-1082.

580. Yemel'yanov, V. I., and Yu. L. Klimontovich (2). Phase transition in a system of two-level atoms interacting with an electromagnetic field. KE, no. 4, 1976, 848-851.

581. Zhuravlev, V. Ye., Yu. N. Zhitnev, M. P. Popovich, G. N. Kashnikov, and Yu. V. Filippov (2). Inhibition of the carbon bisulfide reaction with ozone in the gas phase. VMU Khimiya, no. 6, 1975, 668-672.

F. INSTRUMENTATION AND MEASUREMENT

1. Measurement of Laser Parameters

582. Aristov, A. V., D. A. Kozlovskiy, D. I. Stasel'ko, V. L. Strigun, and A. S. Cherkasov (0). Holographic study of spatial coherence of flashlamp-pumped rhodamine 6G lasers. IN: Sb 5, 68-69. (RZhRadiot, 4/76, 4Ye134)

583. Belotserkovets, A. V., L. I. Zykov, G. A. Kirillov, S. B. Kormer, Yu. V. Kuratov, Yu. V. Savin, and S. A. Sukharev (0). Observation of optical inhomogeneities in the active medium of a chemical laser using an F_2+D_2(H_2)+CO_2 mixture. KE, no. 5, 1976, 1102-1106.

584. Bukatyy, V. I., N. I. Mishchenko, S. M. Slobodyan, and D. P. Chaporov (78). Measuring the intensity distribution of radiation in a transverse cross-section of a laser beam. PTE, no. 2, 1976, 166-168.

585. Kadaner, G. I. (0). Measuring the transmissivity of neutral light filters at high levels of energy exposure. Metrologiya, no. 4, 1976, 14-18.

586. Kovalenko, Ye. S., L. I. Shangina, V. A. Zamotrinskiy, and G. A. Kolchina (0). Calculating the space-time characteristics of laser radiation, allowing for inhomogeneous distribution of pumping energy. ZhPS, v. 24, no. 4, 1976, 602-606.

587. Kuprenyuk, V. I., L. D. Smirnova, V. V. Stepanov, and V. Ye. Sherstobitov (0). Possibility of using coarse diffraction lattices for measuring the parameters of an infrared laser beam. KE, no. 5, 1976, 1126-1129.

588. Levin, G. I. (0). Device for diagnostics of a laser beam. Author's certificate USSR, no. 428205, 18 March 1975. (RZhRadiot, 5/76, 5Ye262)

589. Mizeraczyk, J. K. (Polish), T. Goto, and S. Hattori (Japanese). An approach to quantitative description of positive-column He-Cd^+ laser power output at 441.6 nm. BAPS, no. 1, 1976, 1(53)-6(58).

590. Muntyan, K. I., B. I. Rubinshteyn, and V. S. Solov'yev (0). Device for measuring the radiation energy of Q-switched pulsed lasers. Otkr izobr, no. 8, 1976, 505063.

591. Slavnov, S. G. (0). Determining the angle of divergence of laser radiation and method of its control. IT, no. 4, 1976, 45-46.

592. Solomakha, D. A., and A. K. Toropov (129). Accuracy of measuring laser frequency by means of Doppler shifts. KE, no. 5, 1976, 1148-1150.

593. Szymanski, M., et al. (NS). Measuring the nanosecond optical pulses of a high power ruby laser. Fiz. dielektr. i radiospektr. Pr. komis. mat.-przyrodn. PTPN, v. 7, no. 1, 1975, 133-139. (RZhF, 6/76, 6D1274)

594. Yegorov, Yu. P., G. I. Rukman, B. M. Stepanov, and A. V. Khromov (0). Device for measuring the energy parameters of laser radiation. Otkr izobr, no. 8, 1976, 505064.

595. Zavgorodneva, S. I., V. I. Kupernyuk, V. V. Sergeyev, and V. Ye. Sherstobitov (0). Measurements of spatial distribution of gain in infrared lasers. KE, no. 5, 1976, 1124-1126.

2. Miscellaneous Measurement Applications

596. Akhmanov, S. A., and N. I. Koroteyev (0). Coherent active Raman scattering spectroscopy by means of tunable lasers. IN: Sb 15, 11-18. (RZhF, 5/76, 5D313)

597. Arkhipov, R. N., B. L. Vasin, I. A. Dubovik, M. I. Fedyanina, and A. S. Shikanov (1). Small-scale scheme of an optical delay for studying fast-flow processes. KE, no. 5, 1976, 986-990.

598. Arslanbekov, T. U. (0). Probability of multiphoton processes in a strong optical radiation field of a multimode laser. ZhTF P, no. 12, 1976, 536-539.

599. Augustov, P. A., V. I. Gotlib, and A. O. Ozols (0). Mechanism of the change of coefficient of refraction in lithium niobate crystals under the action of light. IN: Sb 12, 79-80. (RZhFoto, 3/76, 3.46.104)

600. Bagayev, S. N., L. S. Vasilenko, A. K. Dmitriyev, M. N. Skvortsov, and V. P. Chebotayev (10). Narrowing of nonlinear resonances in low pressure gases. ZhETF P, v. 23, no. 7, 1976, 399-403.

601. Bagayev, S. N., and A. V. Shishayev (0). Use of an external Fabry-Perot interferometer with a saturable absorber for obtaining narrow resonances in laser radiation power. ZhPS, v. 24, no. 4, 1976, 607-610.

602. Basiyev, T. T. (1). Apparatus for spectroscopic studies of solids by an oscillographic method of delayed coincidences. PTE, no. 2, 1976, 182-185.

603. Bavel'skiy, D. M., V. V. Trofimovskiy (0). Experiment in using holographic interferometry to study vibration of rotor components in gas turbine engines. Problemy prochnosti, no. 5, 1976, 85-87.

604. Bazarov, Ye. N., and M. Ye. Zhabotinskiy (0). Quantum frequency standards. IN: Sb 3, 379-400. (RZhF, 1/76, 1Zh43)

605. Bekker, A. M., N. I. Bukhtoyarova, K. A. Veyner, V. P. Gorelik, S. N. Nilolayev, and B. G. Turukhano (0). Automatic correlation analyzer of the sizes of bacterial colonies. IN: Sb 17, 8-11. (RZhRadiot, 4/76, 4Ye369)

606. Belinskaya, G. I., A. S. Dubovik, L. N. Ivashneva, V. S. Trachuk, and B. M. Stepanova (0). Study of luminophors with thermal quenching for recording an IR image. IN: Sb 34, 90-92. (RZhF, 6/76, 6D1646)

607. Belokrinitskiy, N. S., V. N. Bereza, B. D. Bobkov, and L. A. Kernazhitskiy (5). Determining the velocity of shock waves by a laser method. PTE, no. 2, 1976, 181-182.

608. Blaszczak, Z. (NS). Optical Kerr constant measurements in halogen derivatives of benzene. APP, v. A49, no. 4, 1976, 515-519.

609. Bodor, G. (NS). Use of laser diffractography for modeling the structure of polymers. Magy. kem. lapja, v. 30, no. 5, 1975, 250-255. (RZhKh, 19S, 4/76, 4S42)

610. Bogdanov, V. V., and D. K. Mynbayev (110). Errors in a laser gyroscope from fluctuations of its parameters. IN: Tr 20, 68-77. (RZhMekh, 6/76, 6B1381)

611. Bogdanov, V. V., and B. R. Nezhikhovskiy (110). Structure of errors in a laser gyroscope. IN: Tr 21, 69-70. (RZhRadiot, 4/76, 4Ye312)

612. Bredikhin, V. I., V. N. Genkin, and L. V. Soustov (8). Two-photon spectroscopy of proustite (Ag_3AsS_3). KE, no. 4, 1976, 751-754.

613. Bykovskiy, Yu. A., T. A. Basova, V. I. Belousov, V. M. Gladskoy, V. V. Gorshkov, V. G. Degtyarev, I. D. Laptev, and V. N. Nevolin (16). Possibility of standard-free quantitative analysis of solids by a mass-spectrometer with a laser ion source. ZhTF, no. 6, 1976, 1338-1341.

614. Chebotayev, V. P. (10). Multiphoton ultrahigh-resolution spectroscopy. KE, no. 4, 1976, 694-708.

615. Chumak, E. I. (0). Pulse method and experimental assembly for measuring thermophysical properties (α, λ, Cp), based on a ruby laser. IN: Sb 35, 101-108. (RZhMetal, 15I, 6/76, 6I818)

616. Danilov, O. B., A. A. Zabelin, A. P. Zhevlakov, T. N. Kotlikova, and V. Ye. Terent'yev (7). Laser shift interferometer for studying fast-flow processes. OMP, no. 5, 1976, 33-36.

617. Davydov, A. Ye., N. A. Tarasov, and S. A. Abrukov (0). Some advantages of holographic interferometry in the study of a flare. IN: Sb 36, 122-126. (RZhMekh, 4/76, 4B515)

618. De, S. T., A. G. Kozachok, A. V. Loginov, and Yu. N. Solodkin (0). Use of dual-wavelength interferometry in studying deformations and vibrations of objects. Problemy prochnosti, no. 5, 1976, 109-111.

619. Dekhtyar, I. Ya., L. I. Ivanov, N. V. Karlov, G. P. Kuz'min, M. M. Nishchenko, A. M. Prokhorov, N. N. Rykalin, and V. A. Yanushkevich (22, 283). Effect of laser irradiation of niobium-based superconducting materials on the character of the change in critical temperature. KE, no. 4, 1976, 844-847.

620. Dubnishchev, Yu. N., V. A. Pavlov, V. S. Sobolev, A. A. Stolpovskiy, and T. A. Sheloput (0). Laser Doppler device for correlation measurements of speed. IN: Sb 37, 20. (RZhRadiot, 4/76, 4Ye452)

621. Gavronskaya, Ye. A., A. V. Groznyy, D. I. Stasel'ko, and V. L. Strigun (0). Holographic interferometry of the dynamics of optical inhomogeneities in an active medium of a flashlamp-pumped organic dye laser. IN: Sb 5, 86-88. (RZhRadiot, 4/76, 4Ye336)

622. Gaygerov, B. A. (140). Frequency pulling in a hydrogen generator by an external signal. IN: Tr 22, 52-54. (RZhF, 1/76, 1Zh44)

623. Gaygerov, B. A., and L. P. Yelkina (140). Modulation frequency during tuning of a hydrogen generator by the amplitude criterion. IN: Tr 22, 55-61. (RZhF, 1/76, 1Zh47)

624. Gaygerov, B. A., and L. P. Yelkina (140). Effect of spin-exchange collisions of atoms on the frequency of a hydrogen generator during tuning of the resonator by the amplitude criterion. IN: Tr 22, 61-63. (RZhF, 1/76, 1Zh45)

625. Goloborod'ko, V. T., Yu. M. Kiselev, and Ye. S. Shul'man (163). Instrument for measuring the spatial distribution of velocity in two-phase flows. IN: Tr 23, 80-85. (RZhF, 5/76, 5D1268)

626. Goloborod'ko, V. T., and Ye. S. Shul'man (163). Analysis of the sensitivity of the heterodyne and interferometric methods for detecting a Doppler signal. IN: Tr 23, 86-91. (RZhF, 5/76, 5D1267)

627. Gorskiy, S. M., Z. V. Krotova, N. N. Kruglova, and V. K. Fedorova (8). Measuring the relative spectral sensitivity of photomaterials by a Fourier-spectrometry method. ZhNiPFiK, no. 2, 1976, 116-118.

628. Il'in, V. K., and V. V. Novikov (0). Photoelectric system for indicating a moving object. IN: Sb 35, 174-175. (RZhMekh, 6/76, 6B1387)

629. Kaczmarek, F. (NS). Spectroscopy of emission and absorption by means of nanosecond and picosecond pulses. IN: Sb 9, 145-161. (RZhF, 6/76, 6D1304)

630. Kalinovskiy, V. L., and G. I. Rukman (0). Using the effect of total internal reflection for controlling the parameters of gases. IT, no. 5, 1976, 73-74.

631. Kaliteyevskiy, N. I., and M. P. Chayka (12). Method of intersecting levels in comparison with the latest achievements in high-resolution laser spectroscopy. KE, no. 4, 1976, 709-714.

632. Karnakov, V. V., and D. K. Mynbayev (110). Effect of errors in a laser gyroscope on the accuracy of determining the angular position of an object. IN: Tr 21, 63-65. (RZhRadiot, 4/76, 4Ye310)

633. Khesin, G. L., I. V. Zhavoronok, G. S. Kutayeva, Yu. I. Marshak, and V. I. Khe (254). Use of holographic interferometry in studies of dynamic processes by a photoelasticity method. IN: Tr 24, 4-8. (RZhMekh, 6/76, 6V1610)

634. Khodovoy, V. A., and V. V. Khromov (0). Detection of hidden weak absorption bands by a method of saturation spectroscopy. OiS, v. 40, no. 6, 1976, 1098-1099.

635. Klyukin, L. M., and V. M. Klyuchnikov (141). Parameters of luminescent screens designed for thermophotography under various exposure regimes. KE, no. 5, 1976, 1095-1101.

636. Kotyuk, A. F., S. V. Tikhomirov, N. P. Khatyrev, A. A. Chernoyarskiy, and V. A. Yakovlev (141). Using a GaAs injection laser to study the linearity of photomultipliers in a pulsed regime. PTE, no. 2, 1976, 231-233.

637. Kozachok, A. G., G. Ya. Kezerashvili, Yu. A. Rakushin, and Yu. N. Solodkin (0). Determining deformations and stresses by holographic interferometry methods. IN: Sb 17, 28-29. (RZhRadiot, 4/76, 4Ye348)

638. Kozlov, M. Yu., and A. V. Mochalov (110). Experimental study of the possibility of complex stabilization of the parameters of a laser gyroscope. IN: Tr 21, 61-63. (RZhRadiot, 4/76, 4Ye311)

639. Kuznetsov, G. M., M. A. Sergeyev, and V. V. Eymbke (30). Determining the azimuth by a laser gyroscope. IVUZ Priboro, no. 6, 1976, 70-74.

640. Laser system for measuring displacements. IN: Sb 39, 47. (RZhRadiot, 4/76, 4Ye448)

641. Lazareva, N. L. (7). Methods for designing compensators for controlling large diameter lenses in a laser interferometer. OMP, no. 4, 1976, 25-27.

642. Leonov, R. K., V. V. Yefimov, N. F. Taurin, and P. A. Yampol'skiy (0). Using a method of pulsed laser ultramicroscopy for studying the microinhomogeneous structure of glass. Fizika i khimiya stekla, no. 2, 1976, 136-140.

643. Lipkin, A. S. (0). Use of holographic interferometry for studying the stressed-deformed state of models of hydraulic engineering structures and shore slopes. IN: Sb 17, 29-31. (RZhRadiot, 4/76, 4Ye338)

644. Nozhnitskiy, Yu. A., V. G. Seleznev, V. A. Yegorov, and B. V. Panfilov (0). Holographic interferometry for analyzing joints of plastic components. Plasticheskiye massy, no. 3, 1976, 28-29.

645. Orlanov, V. I., V. P. Klochkov, and V. P. Ivanov (0). Studying dispersion electrohydrodynamic flows by a laser Doppler flowmeter. Magnitnaya gidrodinamika, no. 4, 1975, 69-74.

646. Ostrovskiy, Yu. I., V. I. Popov, and V. A. Blagova (0). Holographic multibeam immersion interferometry of a surface relief. IN: Sb 17, 32. (RZhRadiot, 4/76, 4Ye356)

647. Ovechkin, A. P., S. Ya. Lovkov, and I. I. Dukhopel (7). Calculating instrument error in holographic interferometers with a narrow reference beam. OMP, no. 4, 1976, 68-71.

648. Pinchuk, S. D., A. M. Skripkin, and A. A. Suplakov (220). Possibility of using a laser anemometer for determining the characteristics of a liquid-droplet aerosol. IN: Tr 9, 162-170. (RZhF, 6/76, 6D1319)

649. Pluta, M. (NS). Use of laser radiation in microscopy. IN: Sb 9, 225-270. (RZhF, 6/76, 6D1669)

650. Rinkevichyus, B. S., V. I. Smirnov, and V. A. Fabrikant (0). Operation of a laser anemometer with a differential optical scheme. OiS, v. 40, no. 5, 1976, 885-892.

651. Rinkevichyus, B. S., A. V. Tolkachev, and V. N. Kharchenko (0). Study of a compressed turbulent boundary layer and detached regions at Mach 5 by a laser Doppler anemometer. MZhiG, no. 2, 1976, 175-178.

652. Safronova, A. P. (0). Use of holography in metrology. IN: Sb 28, 297-304. (RZhF, 6/76, 6D1383)

653. Samartsev, V. V., and R. G. Usmanov (38). Optical echo in YAG. FTT, no. 6, 1976, 1544-1546.

654. Sazonova, L. V., and F. V. Ganits (0). Studying the phase diagram of an Nd_2O_3-HfO_2 system by means of a laser device. IN: Sb 9, no. 9, 132-133. (RZhKh, 19AB, 3/76, 3B1108)

655. Shisharin, A. V., I. A. Piontkovskaya, and P. V. Kazarin (0). Synthesis of optical filters for noncoherent Fourier analyzers and Fresnel analyzers. IN: Sb 17, 119-121. (RZhRadiot, 4/76, 4Ye408)

656. Sikora, S. V., V. A. Levin, and V. M. Smulakovskiy (0). Digital laser refractometer. IT, no. 4, 1976, 47-48.

657. Strizhevskiy, V. L. (51). First All-Union Conference on the Spectroscopy of Raman Scattering, Kiev, 18-20 November 1975. KE, no. 5, 1976, 1161-1166.

658. Tselikov, A. I., B. A. Morozov, O. G. Lisin, and V. S. Aistov (384). Use of holographic interferometry for studying processes of elastic and plastic deformation. Problemy prochnosti, no. 6, 1976, 106-110.

659. Tsibulya, A. B., and V. G. Chertov (7). Focusing of a single-mode laser. OMP, no. 5, 1976, 22-25.

660. Ushakov, L. S., and Yu. I. Filenko (0). Motion picture holographic recording of fast-flow processes. IN: Sb 17, 72-73. (RZhRadiot, 4/76, 4Ye351)

661. Vedernikov, V. M., V. P. Kir'yanov, M. A. Koksharov, and P. M. Tsapenko (0). Correcting the result in measuring displacements by laser interferometers. Avtometriya, no. 2, 1976, 84-86.

662. Venatovskiy, I. V., K. I. Krylov, and S. F. Sharlay (0). Quantum electronics at the All-Union Conference on Modern Applied Optics and Optical Instruments, Leningrad, 10-13 June 1975. KE, no. 6, 1976, 1363-1364.

663. Vidavskiy, L. M. (0). Use of lasers in thermodynamic research. IN: Sb 40, 47-51. (RZhMetal, 15I, 4/76, 4I981)

664. Vishnyakov, V. V., and M. N. Popova (109). Light sum accumulation in copper-doped quartz glass under the action of high power ruby laser radiation. IN: Tr 25, 44-54. (RZhF, 5/76, 5D1117)

665. Volosov, V. D., and A. G. Kalintsev (0). Possibility of developing a panoramic spectrograph with high dispersion and high spectral resolution. KE, no. 4, 1976, 798-801.

666. Vorob'yev, V. V., and B. A. Knyazev (0). Use of a dye laser in studies of the electric strength of liquid dielectrics. IN: Sb 5, 214-215. (RZhRadiot, 4/76, 4Ye394)

667. Voytovich, A. P., and A. Ye. Sil'vanovich (0). Phase-polarized methods for high-resolution laser spectroscopy. ZhPS, v. 24, no. 4, 1976, 596-601.

668. Yamshanov, Yu. A., and S. N. Pogorskiy (12). Wideband frequency multiplier for a KM-2 optically pumped quantum magnetometer. PTE, no. 2, 1976, 236-238.

669. Yefimochkin, I. S., R. K. Leonov, B. M. Stepanov, N. F. Taurin, and P. A. Yampol'skiy (0). Microphotographic recording of inclusions in transparent media by means of low-noise multi-chambered image-converter tubes. IN: Sb 30, 17. (RZhFoto, 4/76, 4.46.264)

670. Yefimov, V. V., R. K. Leonov, N. F. Taurin, and P. A. Yampol'skiy (0). Direct method of photographic recording of microinhomogeneities in glass, using a pulsed laser. IN: Sb 30, 110. (RZhFoto, 4/76, 4.46.265)

671. Yelenevskiy, D. S., R. S. Bekbulatov, Yu. N. Shaposhnikov, V. A. Yeryshev, A. M. Burenkin, and Yu. G. Yurtayev (0). Use of a strobeholographic method for studying vibrations. Problemy prochnosti, no. 5, 1976, 95-99.

672. Yeremeyeva, T. P., and I. A. Vorsina (383). Multipass attachment to a DFS-12 Raman spectrometer. PTE, no. 2, 1976. 234-235.

673. Zhavoronok, I. V., and G. S. Kutayeva (254). Possibility of recording polarization of light by a holographic method in photoelasticity. IN: Tr 24, 8-12. (RZhMekh, 6/76, 6V1611)

674. Zhavoronok, I. V., G. S. Kutayeva, and V. I. Khe (254). Separation of stresses in plane models by a method of holographic interferometry. IN: Tr 24, 14-17. (RZhMekh, 6/76, 6V1612)

G. BEAM-TARGET INTERACTION

1. Metal Targets

675. Anoshin, A. N., V. F. Loskutov, and T. A. Parchevskaya (0). Formation of short pressure pulses by the action of laser radiation on metal films. Cited in FiKhOM, no. 3, 1976, 158-159.

676. Apostol, I., L. C. Arsenovici, I. N. Mihailescu, I. M. Popescu, I. A. Teodorescu, and V. S. Teodorescu (NS). Laser-induced surface damage on metal-coated glass mirrors. Revue roumaine de physique, v. 20, no. 7, 1975, 749-750.

677. Buravlev, Yu. M., I. I. Morokhovskaya, V. N. Murav'yev, and B. P. Nadezhda (274). Study of the effect of probe structure on the results of spectral analysis of alloys by means of laser microanalyzer. ZL, no. 2, 1976, 169-171.

678. Bykovskiy, Yu. A., A. G. Dudoladov, V. P. Kozlenkov, P. A. Leont'yev, and K. P. Orlov (0). Use of a laser for preparing thin films on heated substrates. FiKhOM, no. 2, 1976, 133-135.

679. Gazuko, I. V., and L. I. Mirkin (0). Kinetics of laser destruction of brittle materials at various temperatures. Cited in FiKhOM, no. 3, 1976, 158.

680. Geptin, A. P., R. R. Larina, and L. I. Mirkin (248, 253). Characteristics of the dislocation structure of zinc caused by the action of a laser beam. IVUZ Fiz, no. 4, 1975, 26-30.

681. Gorin, Yu. N., L. N. Ivanova, and A. B. Klyukvin (110). Laser sputtering of metals on piezoelectric substrates. IN: Tr 26, 98-101. (RZhRadiot, 5/76, 5Ye352)

682. Ivanov, L. I., N. A. Litvinova, and V. A. Yanushkevich (0). Anomalous distribution of the density of defects formed in an absorption medium under laser irradiation. FiKhOM, no. 2, 1976, 3-6.

683. Martynyuk, M. M. (14). Explosive mechanism of destroying metals by a high power flux of electromagnetic radiation. ZhTF, no. 4, 1976, 741-746.

684. Smyslov, Ye. F., and L. I. Mirkin (0). Processing of powdered metals by means of laser radiation and shock waves. Cited in FiKhOM, no. 3, 1976, 158.

685. Uglov, A. A., and O. I. Isayeva (0). Calculating the rate of heating of metals under the action of laser radiation. FiKhOM, no. 2, 1976, 23-28.

686. Zhiryakov, B. M., P. I. Popov, A. A. Samokhin, and A. K. Fannibo (0). Pulsating regime of stationary evaporation of metal by laser radiation. Cited in FiKhOM, no. 3, 1976, 159.

687. Zhukov, A. A., O. M. Borisova, and A. L. Sasin (0). Separation of hydrogen from pig iron under the action of laser radiation. FiKhOM, no. 2, 1976, 128-131.

2. Dielectric Targets

688. Aleshin, I. V., S. I. Anisimov, A. M. Bonch-Bruyevich, Ya. A. Imas, and V. L. Komolov (73). Optical breakdown of transparent media which contain microinhomogeneities. ZhETF, v. 70, no. 4, 1976, 1214-1224.

689. Belinicher, V. I., I. F. Kanayev, V. K. Malinovskiy, Yu. Ye. Nesterekhin, and B. I. Sturman. Study of the mechanism of optical damage in lithium niobate crystals. ZhTF P, no. 9, 1976, 408-412.

690. Boyko, Yu. I., and A. K. Yemets (0). Rosette of color centers at the front of an opening crack, around the laser interaction region. FiKhOM, no. 3, 1976, 137-138.

691. Butenin, A. V., and B. Ya. Kogan (0). Destruction mechanism of transparent polymer materials under multiple action of pulsed laser radiation. KE, no. 5, 1976, 1136-1138.

692. Firsov, S. P., and Ye. F. Khodar (0). Action of CO_2 laser radiation on the structure of various polymers. IN: Sb 41, 69-70. (RZhKh, 19S, 5/75, 5S57)

693. Gurevich, Ye. B., V. P. Krasyukov, G. N. Tarkhov, and Yu. V. Chebotarevskiy (317). Determining the temperature field of a plate during drilling by laser radiation. IVUZ Priboro, no. 5, 1976, 125-127.

694. Kazakov, S. A., L. F. Komolova, A. I. Portnyagin, M. Yu. Sklyarov, and A. A. Churin (2). Occurrence of spherical defects under the action of laser radiation. NM, no. 5, 1976, 970-972.

695. Pilipetskiy, N. F., and Yu. V. Sidorin (17). Formation of a linearly extended zone of destruction within transparent polymers. Mekhanika polimerov, no. 2, 1976, 354-467.

696. Tribel'skiy, M. I. (174). Steady motion of an opacity wave during optical breakdown of condensed transparent media. FTT, no. 5, 1976, 1347-1350.

697. Veynberg, V. B., N. P. Kuz'mina, and D. M. Frolov (7). Action of laser radiation on fiber-optic components. OMP, no. 5, 1976, 13-16.

698. Vigasin, A. A., and A. P. Sukhorukov (2). Temperature stresses in laser materials with inclusions. KE, no. 5, 1976, 975-980.

699. Zakharov, S. I. (0). Criteria for the breakdown of dielectrics by a single optical pulse. Cited in FiKhOM, no. 3, 1976, 159.

3. Semiconductor Targets

700. Brodin, M. S., N. A. Davydova, and I. Yu. Shabliy (5). Action of laser radiation on the optical spectra of CdS single crystals. FTP, no. 4, 1976, 625-630.

701. Gomonova, A. I., and Yu. V. Ponomarev (2). Recovery of a P-I-N photodiode under irradiation by a high power optical pulse. VMU, no. 1, 1976, 32-38.

702. Tovstyuk, K. D., G. V. Plyatsko, V. B. Orletskiy, S. G. Kiyak, and Ya. V. Bobitskiy (385, 303). Characteristics of interaction of high power laser radiation with a $Pb_{0.83}Sn_{0.17}Te$ solid solution. UFZh, no. 4, 1976, 531-534.

703. Tovstyuk, K. D., G. V. Plyatsko, Ye. S. Nikonyuk, S. G. Kiyak, and Ya. V. Bobitskiy (303, 385). Characteristics of the interaction of high power laser radiation with CdTe single crystals doped with bromine and germanium. UFZh, no. 4, 1976, 689-691.

704. Zenchenko, V. P., and E. P. Sinyavskiy (44). Indirect optical transitions in a homogeneous magnetic field in the presence of resonant laser radiation. FTP, no. 4, 1976, 807.

705. Zuyev, V. A., V. G. Litovchenko, G. A. Sukach, and N. M. Torchun (6). Effect of laser irradiation on the structural and electric characteristics of a silicon surface. UFZh, no. 5, 1976, 752-754.

4. Miscellaneous Studies

706. Apanasevich, P. A., and S. Ya. Kilin (0). Spontaneous emission of relaxing quantum systems in a high power radiation field. ZhPS, v. 24, no. 4, 1976, 738-751.

707. Apostol, I., L. C. Arsenovici, I. N. Mihailescu, I. M. Popescu, and I. A. Teodorescu (NS). Pulsed CO_2 laser irradiation of KCl crystals. Revue roumaine de physique, v. 20, no. 7, 1975, 655-659. (RZhF, 5/76, 5D1240)

708. Arushanov, S. Z., A. S. Bebchuk, and V. V. Lomonosov (0). Anisotropy of the threshold of optical stability of alkali-halide single crystals during breakdown by polarized laser radiation. FTT, no. 5, 1976, 1442-1445.

709. Badalyan, A. M., A. A. Dabagyan, and M. Ye. Movsesyan (59). Study of the dynamics of development of nonlinear resonant processes in potassium vapor. ZhETF, v. 70, no. 4, 1976, 1178-1184.

710. Kortov, V. S., D. I. Perlov, and V. P. Shifrin (42). Correlation of the exoemission parameters with the beam strength of laser elements. KE, no. 5, 1976, 1143-1145.

711. Lyubov, B. Ya., and E. N. Sobol' (0). Vaporization of a material under the action of a concentrated flux of energy with an elliptical cross-section. FiKhOM, no. 2, 1976, 12-16.

712. Mitropol'skiy, M. M., V. A. Khoteyenkov, and G. S. Khodakov (7). Avalanche breakdown and probability of laser destruction. OMP, no. 6, 1976, 18-20.

713. Mukhamedgaliyeva, A. F., A. M. Bondar', and T. A. Ziborova (387). "Deformation" effect by CO_2 laser radiation in the infrared absorption spectrum of a microcline ($KAlSi_3O_8$). ZhTF, no. 4, 1976, 873-874.

714. Uglov, A. A. (0). Highly concentrated sources of heat in the processing of inorganic materials. FiKhOM, no. 3, 1976, 3-15.

715. Uglov, A. A., and D. I. Cherednichenko (0). Temperature region of plasticity under the action of concentrated sources of heat on materials. FiKhOM, no. 3, 1976, 21-25.

716. Ulyakov, P. I. (0). Some premises in the theory of laser vaporization. Cited in FiKhOM, no. 3, 1976, 159.

717. Wolinski, W., and M. Nowicki (NS). Part forming by means of YAG:Nd and CO_2 lasers. Prace naukowe Instytutu elektroniki Politechniki wroclawskiej, no. 14, 1975, 403-430. (RZhF, 4/76, 4D1252)

H. PLASMA GENERATION AND DIAGNOSTICS

718. Afanas'yev, Yu. V., P. P. Volosevich, Ye. G. Gamaliy, O. N. Krokhin, S. P. Kurdyumov, Ye. I. Levanov, and V. B. Rozanov (1). Laser compression of glass shells. ZhETF P, v. 23, no. 8, 1976, 470-473.

719. Afanas'yev, Yu. V., N. G. Basov, Ye. G. Gamaliy, O. N. Krokhin, and V. B. Rozanov (1). Symmetry and stability in the compression of laser thermonuclear targets. ZhETF P, v. 23, no. 11, 1976, 617-620.

720. Aleksandrov, V. V., A. D. Bogdanets, V. L. Borzenko, I. N. Burdonskiy, Ye. P. Velikhov, Yu. G. Gendel', N. G. Koval'skiy, V. G. Nikolayevskiy, P. P. Pashinin, M. I. Pergament, V. G. Ponomarev, A. M. Prokhorov, L. F. Selezneva, V. G. Solov'yeva, Ye. M. Sukharev, V. M. Chernyak, and A. M. Yarosh (0). Single pulse laser with radiation energies of 1-3 kilojoules for thermonuclear research. IN: Sb 4, 178-183. (RZhF, 6/76, 6D1237)

721. Azharonok, V. V., and L. Ye. Krat'ko (0). Diagnostics of plasma jets by laser interferometry at 10.6 μ. IN: Sb 7, 77-78. (RZhMekh, 3/76, 3B1046)

722. Basov, N. G., A. A. Kologrivov, O. N. Krokhin, A. A. Rupasov, G. V. Sklizkov, and A. S. Shikanov (1). Observation of the compression of laser-irradiated hollow microspheres. ZhETF P, v. 23, no. 8, 1976, 474-477.

723. Blokh, M. A., G. S. Voronov, N. P. Donskaya, A. D. Smirnova, and L. Ye. Chernyshev (0). Laser method for producing a hot plasma in the L-2 stellarator. IN: Sb 4, 62-69. (RZhRadiot, 5/76, 5Ye266)

724. Burnakov, A. P., V. A. Zaykov, and G. M. Novik (0). Studying a pulsed plasma jet by a holographic interferometry method. IN: Sb 7, 75-76. (RZhMekh, 3/76, 3B365)

725. Bykovskiy, Yu. A., S. M. Sil'nov, B. Yu. Sharkov, S. M. Shuvalov, and G. A. Sheroziya (16). Effect of the initial diameter of a laser plasma on the processes of ionization and recombination. Fizika plazmy, no. 2, 1976, 248-253.

726. Gribkov, V. A., O. N. Krokhin, G. V. Sklizkov, N. V. Filippov, and T. I. Filippova (1). Experimental study of cumulative phenomena in a plasma focus and a laser plasma. IN: Tr 3, 193-237.

727. Gudzenko, L. I., and S. I. Yakovlenko (1). Atomic reactor-laser using a mixture of UF_6+TlF+F_2. KSpF, no. 12, 1975, 13-16. (RZhRadiot, 5/76, 5Ye284)

728. Jankiewicz, Z. (NS). Construction of solid state lasers used for plasma heating. IN: Sb 9, 163-184. (RZhF, 6/76, 6D1235)

729. Kaliski, S. (NS). Generation of strong electric fields in a microregion by means of a concentric electromagnetic wave. BAPS, no. 3, 1976, 13(221)-17(225).

730. Khokhlov, V. D. (0). Model experiment on using optical methods for observing the acceleration of a point-blast shock wave in an inhomogeneous atmosphere. IN: Sb 42, 74-76. (RZhMekh, 6/76, 6B223)

731. Kolesnikov, V. N., V. K. Fomin, and L. I. Shumskaya (0). Determining the electron concentration in a short pulsed discharge plasma. ZhPS, v. 24, no. 4, 1976, 592-595.

732. Kostyukevich, Ye. A. (0). High-speed shadow cinematography of plasmadynamic processes in electrode-type discharge shock tubes. IN: Sb 7, 67-68. (RZhMekh, 3/76, 3B390)

733. Krokhin, O. N., G. V. Sklizkov, and A. S. Shikanov (1). Experimental study of the reflection and absorption of high power optical radiation in a laser plasma. IN: Tr 3, 143-192. (RZhRadiot, 6/76, 6Ye165).

734. Kryuchenkov, V. B., V. A. Lykov, and L. I. Shibarshov (0). Determining the parameters of a deuterium plasma in laser targets according to neutron measurements. KE, no. 6, 1976, 1344-1346.

735. Kugushev, A. M., A. A. Gramakov, Ye. P. Yezhov, and V. A. Petrov (24). Space-time distribution of electrons near the hot zone of a laser spark in air. IN: Tr 1, 106-110. (RZhF, 5/76, 5D1229)

736. Mak, A. A., V. A. Serebryakov, and A. D. Starikov (0). Some problems in developing high power lasers for thermonuclear fusion. IN: Sb 4, 170-177. (RZhRadiot, 5/76, 5Ye265)

737. Malykh, N. I., Ye. S. Yampol'skiy, A. G. Nagornyy, L. Ya. Malykh, and V. I. Khizhnyy (324). Three-mirror interferometer at 0.337 μ for plasma diagnostics. Fizika plazmy, no. 3, 1976, 492-498.

738. Medvedev, Yu. A., and V. D. Khokhlov (0). Some possibilities of studying explosive processes in a rarefied gas by optical methods. IN: Sb 42, 66-73. (RZhMekh, 6/76, 6B226)

739. Panchenko, I. P., M. G. Lyubarskiy, V. D. Shapiro, and V. I. Shevchenko (0). Numerical modeling of a one-dimensional Langmuir collapse with pumping. ZhTF P, no. 9, 1976, 390-394.

740. Poyurovskaya, I. Ye. (240). Breakdown of gases under the simultaneous action of laser and SHF radiation. ZhTF, no. 6, 1976, 1285-1288.

741. Sigov, Yu. S. (0). Numerical modeling of kinetic processes during the interaction of laser radiation with a plasma. IN: Sb 43, 251-279. (RZhRadiot, 6/76, 6Ye163)

742. Zakharenkov, Yu. A., O. N. Krokhin, G. V. Sklizkov, and A. S. Shikanov (1). Study of perturbations in the density profile of a laser plasma by a method of high-speed interferometry. KE, no. 5, 1976, 1068-1079.

III. MONOGRAPHS

743. Alekseyev, A. V., U. Kh. Kopvillem, and Yu. Ye. Sheybut (320). Ekho-lidar (Echo lidar). Kaliningradskiy universitet. Deposit at VINITI, no. 3044-75, 21 October 1975, 7 p. (RZhF, 1/76, 1Zh307)

744. Alekseyev, A. V., and U. Kh. Kopvillem (320). Voprosy teorii kogerentnykh protsessov (Problems in the theory of coherent processes). In 3 parts. Deposit at VINITI, part 1, no. 3046-75, part 2, no. 3047-75, part 3, no. 3048-75, 21 October 1975, 508 p.

745. Alekseyev, B. V., N. M. Dolgov, and V. V. Sokovikov (1). Teploobmen pri laminarnom techenii gaza v razryadnoy trubke CO-lazera (Heat exchange during a laminar flow of a gas in the discharge tube of a CO laser). Fizicheskiy institut AN SSSR. Preprint, no. 161, 1975, 13 p. (RZhF, 5/76, 5D1208)

746. Belyakov, L. V., D. N. Goryachev, L. G. Paritskiy, and O. M. Sreseli (4). Pretsizionnoye fotokhimicheskoye travleniye nizkoomnogo arsenida galliya kak sposob zapisi gologramm (Precision photochemical etching of low-resistance gallium arsenide as a method for recording holograms). Fiziko-tekhnicheskiy institut AN SSSR. Deposit at VINITI, no. 292-76, Leningrad, 2 February 1976, 44 p. (RZhF, 5/76, 5D1297)

747. Bogdanov, A. D. (0). Gyroskopy na lazerakh (Laser gyroscopes). Moskva, Mir, 1976, 75 p.

748. Burunov, Ye. A., G. M. Malyshev, G. T. Razdobarin, V. V. Semenov, and I. P. Folomkin (4). Izmeneniye spektra rasseyaniya lazernogo izlucheniya v plazme pri perekhode ot spontannogo k vynuzhdennomu rasseyaniyu Mandel'shtama-Brillyuena (Change in the scattering spectrum of laser radiation in a plasma at the transition from spontaneous to stimulated Brillouin scattering). Fiziko-tekhnicheskiy institut AN SSSR. Preprint, no. 498, Leningrad, 1975, 9 p. (RZhF, 6/76, 6D1244)

749. Bykovskiy, N. Ye., S. M. Zakharov, N. V. Pletnev, Yu. V. Senatskiy, and S. I. Fedotov (1). Generator subnanosekundnykh impul'sov na neodimovom stekle s impul'snym vklyuchennem dobrotnosti (Subnanosecond pulse generator using neodymium glass with pulsed Q-switching). Fizicheskiy institut AN SSSR. Preprint, no. 137, 1975, 25 p. (RZhF, 4/76, 4D1219)

750. Dubonosov, S. P., A. G. Drabkin, and V. I. Makkaveyev (0). Lazernyya kanaly v kosmicheskoy svyazi (Laser channels in space communications). Novoye v zhizni, nauke, tekhnike. Seriya Radioelektronika i svyaz', no. 11, Moskva, Znaniye, 1975, 64 p. (KL, 6/76, 4543)

751. Elektronika kwantowa i optyka nieliniowa. Sprawoz. z. VI Konf., Poznan, 22-24 kwietn. 1974 (Quantum electronics and nonlinear optics. Works of the 6th Conference, Poznan, 22-24 April 1974). Poznan, 1975, 368 p. (RZhRadiot, 5/76, 5Ye278)

752. Fedorov, B. F., and R. I. El'man (0). Tsifrovaya golografiya. Sintez gologramm prosteyshikh ob''yektov i vosstanovleniye izobrazheniy (Digital holography. Synthesis of holograms of the simplest objects and reconstruction of the images). Moskva, Nauka, 1976, 151 p. (RZhF, 5/76, 5D1271)

753. Gudzenko, L. I., and S. I. Yakovlenko (1). Plazmennyye lazery. Doklad na 2-om Vsesoyuznom simpoziume po fizike gazovykh lazerov. Novosibirsk, iyun' 1975 g. (Plasma lasers. Report on the 2nd All-Union Symposium on the Physics of Gas Lasers. Novosibirsk, June 1975). Fizicheskiy institut AN SSSR. Preprint, no. 131, 1975, 36 p. (RZhF, 6/76, 6D1138)

754. Ionescu-Pallas, N. (NS). Fizica laserilor. II. Elemente de termodinamica si fizica statistica (Physics of lasers. Part 2. Elements of thermodynamics and statistical physics). Com. stat pentru energ. nucl. Inst. fiz. atom. Bucuresti, 1973, 76 p. (RZhF, 6/76, 6D1134)

755. Izokh, V. V., A. S. Klyuchnikov, N. I. Kurilo, and V. P. Sidorovich (0). Laboratornyye raboty po gologrāfii (Laboratory practice in holography). Minsk, Izd-vo BGU, 1975, 135 p. (KL, 13/76, 10605)

756. Khanin, Ya. I. (0). Kvantovaya radiofizika. T. 2. Dinamika kvantovykh generatorov (Quantum radiophysics. Vol. 2. Dynamics of quantum generators). 2nd edition, Moskva, Sovetskoye radio, 1975, 496 p.

757. Kinos"yemochnyye protsessy (Motion picture filming processes). Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut. Trudy, no. 78, Moskva, 1975, 203 p. (RZhF, 4/76, 4D1338)

758. Kirillov, N. I., and V. A. Barachevskiy, eds. (0). Registriruyushchiye sredy dlya gologrāfii (Recording media for holography). Leningrad, Nauka, 1975, 165 p. (RBL, 5-6/76, 917)

759. Luk'yanov, S. Yu. (0). Goryachaya plazma i upravlyayemyy yadernyy sintez (Hot plasma and controlled nuclear fusion). Moskva, Nauka, 1975, 407 p.

760. Makhviladze, T. M., and M. Ye. Sarychev (1). Ob uglovykh raspredeleniyakh vysshikh stoksovykh komponent VKR (Angular distributions of higher Stokes components in stimulated Raman scattering). Fizicheskiy institut AN SSSR. Opticheskaya laboratoriya. Preprint, no. 158, 1975, 9 p. (RZhF, 4/76, 4D1062)

661. Makhviladze, T. M., and M. V. Sarychev (1). Prostranstvennoye raspredeleniye intensivnostey VKR (Spatial distribution of stimulated Raman scattering intensities). Fizicheskiy institut AN SSSR. Opticheskaya laboratoriya. Preprint, no. 159, 1975, 22 p. (RZhF, 5/76, 5D1130)

662. Makhviladze, T. M., and M. Ye. Sarychev (1). Effekt samoindutsirovannoy prozrachnosti pri VKR (Self-induced transparency effect in stimulated Raman scattering). Fizicheskiy institut AN SSSR. Opticheskaya laboratoriya. Preprint, no. 165, 1975, 23 p. (RZhF, 5/76, 5D1126)

663. Nestrikhin, Yu. Ye., ed. (75). Kogerentno-opticheskiye doplerovskiye ustroystva v gidroaerodinamicheskom eksperimente (Coherent optical Doppler devices in a hydroaerodynamic experiment). SOAN. Institut Avtomatiki i elektrometrii. Novosibirsk, 1974, 263 p. (RZhMekh, 6/76, 6B1390)

664. Prokhorenko, N. Ya., ed. (0). Vynuzhdennoye kombinatsionnoye rasseyaniye sveta (Stimulated Raman scattering). Obshchestvo Znaniye UkrSSR. Kiyev, 1975, 106 p. (RZhF, 4/76, 4D1060)

665. Troitskiy, Yu. V. (0). Odnochastotnaya generatsiya v gazovykh lazerakh (Single-frequency lasing in gas lasers). Novosibirsk, Nauka, 1975, 160 p. (RZhF, 4/76, 4D1079)

666. Volkov, I. V., and V. M. Vakulenko (0). Istochniki elektropitaniya lazerov (Sources of electric power supply for lasers). Kiyev, Tekhnika, 1976, 176 p.

667. Volkovitskiy, O. A., and L. P. Semenov, eds. (220). Atmosfernaya optika (Atmospheric optics). Institut eksperimental'noy meteorologii. Trudy, no. 13(58), 1976, 210 p. (RZhF, 6/76, 6D1026)

668. Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya "Sovremennoye sostoyaniye i perspektivy razvitiya vysokoskorostnoy fotografii i kinematografii i metrologii bystroprotekayushchikh protsessov," 25-28 noyabrya 1975 g. Tezisy dokladov (All-Union Scientific and Technical Conference on the Current State and Prospects for the Development of High Speed Photography and Cinematography and Metrology of Fast-Flow Processes, 25-28 November 1975. Summaries of the reports). Moskva, 1975, 144 p. (RZhF, 4/76, 4D1463)

669. VII Vsesoyuznaya shkola po gologrāfii, yanv. 1975 g. Materialy (Seventh All-Union Seminar on Holography, January 1975. Materials). Fiziko-tekhnicheskiy institut AN SSSR. Leningrad, 1975, 508 p. (RZhF, 6/76, 6D1327)

670. I Vsesoyuznyy simpozium po opticheskim issledovaniyam verkhney atmosfery, 15-18 dek. 1975 g. Tezisy dokladov (First All-Union Symposium on Optical Studies of the Upper Atmosphere, 15-18 December 1975. Summaries of the reports). Tbilisi, 1975, 117 p. (RZhF, 6/76, 6D1025)

IV. SOURCE ABBREVIATIONS

APP	-	Acta physica polonica
BAPS	-	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Techniques
DAN B	-	Akademiya nauk Belorusskoy SSR. Doklady
DAN SSSR	-	Akademiya nauk SSSR. Doklady
DAN Ukr	-	Akademiya nauk Ukrayins'koyi RSR. Dopovidi
FAiO	-	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FiKhOM	-	Fizika i khimiya obrabotka materialov
FTP	-	Fizika i tekhnika poluprovodnikov
FTT	-	Fizika tverdogo tela
GiK	-	Geodeziya i kartografiya
IAN B	-	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IAN Lat	-	Akademiya nauk Latviyskoy SSR. Izvestiya.
IAN Uzb	-	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IT	-	Izmeritel'naya tekhnika
IVUZ Fiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Geod	-	Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka
IVUZ Priboro	-	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radiofiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
KE	-	Kvantovaya elektronika
KL	-	Knizhnaya letopis'
KSpF	-	Kratkiye soobshcheniya po fizike
LC	-	Received at Library of Congress
MZhiG	-	Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza

NM	-	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy
OiS	-	Optika i spektroskopiya
OMP	-	Optiko-mekhanicheskaya promyshlennost'
Otkr izobr	-	Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki
PTE	-	Pribory i tekhnika eksperimenta
RBL	-	Russian Book List
RiE	-	Radiotekhnika i elektronika
RZhF	-	Referativnyy zhurnal. Fizika
RZhFoto	-	Referativnyy zhurnal. Fotokinotekhnika
RZhGeofiz	-	Referativnyy zhurnal. Geofizika
RZhKh	-	Referativnyy zhurnal. Khimiya
RZhMekh	-	Referativnyy zhurnal. Mekhanika
RZhMetal	-	Referativnyy zhurnal. Metallurgiya
RZhRadiot	-	Referativnyy zhurnal. Radiotekhnika
Sb1	-	Sbornik. Poluprovodnikovaya tekhnika i mikroelektronika, no. 23, 1976.
Sb2	-	Soveshchaniye po teorii poluprovodnikov. 8th. 1975. Kiyev, Naukova dumka, 1975.
Sb3	-	Issledovaniya v oblasti radiotekhniki i elektroniki. 1954-1974. Part 2. Moskva, 1975.
Sb4	-	Vsesoyuznoye soveshchaniye po inzhenernym problemam upravlyayemogo termoyadernogo sinteza. Doklady, v. 2, Leningrad, 1975.
Sb5	-	Vsesoyuznaya konferentsiya "Lazery na osnove slozhnykh organicheskikh soyedineniy." 1975. Materialy. Minsk, 1975.
Sb6	-	Voprosy energoperenosa v neodnorodnykh sredakh. Minsk, 1975.
Sb7	-	Teoreticheskaya fizika. Fizika plazmy. Minsk, 1975.
Sb8	-	Nauchnyye pribory, no. 8, 1975.

Sb9	-	Elektronika kwantowa i optyka nieliniowa. Sprawozd. VI Konf., Poznan, 1974. Poznan, 1975.
Sb10	-	Mendeleyevskiy s"yezd po obshchey i prikladnoy khimii. 11th. Referativnyye doklady i soobshcheniya, no. 3. Moskva, Nauka, 1975.
Sb11	-	Radioapparatostroyeniye i mikroelektronika. Tula, 1975.
Sb12	-	Vsesoyuznaya konferentsiya "Besserebryanyye i neobychnyye fotograficheskiye protsessy." 2nd. Section 3. Tezizy dokladov. Kishinev, 1975.
Sb13	-	Poluprovodnikovaya tekhnika i mikroelektronika, no. 22, 1976.
Sb14	-	Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po mikroelektronike. 7th, 1975. Tezisy dokladov. L'vov, 1975.
Sb15	-	Vynuzhdennoye kombinatsionnoye rasseyaniye sveta. Kiyev, 1975.
Sb16	-	Fizika plazmy, no. 1, Tbilisi, Metsniyereba, 1975.
Sb17	-	Vsesoyuznaya konferentsiya po gologrāfii. 2nd. Tezisy dokladov. Part 1. Kiyev, 1975.
Sb18	-	Voprosy avtomatizatsionnoye nauchnoye issledovaniye v oblasti radiotekhniki i elektroniki. Moskva, 1975.
Sb19	-	Nauchno-prakticheskaya konferentsiya "Molodyye uchenyye i spetsialisty Tomskoy oblasti v 9-oy pyatiletke. Sektsiya radiofiziki i optiki. Tezisy dokladov. Tomsk, 1975.
Sb20	-	Priborostroyeniye, no. 20, 1976.
Sb21	-	Geodeziya, kartografiya i aerofotos"yemka, no. 22, 1975.
Sb22	-	Vsesoyuznaya konferentsiya po rasprostraneniyu radiovoln. Part 2. Tezisy dokladov, Kazan', Kazanskiy universitet, 1975.
Sb23	-	Gidrofizicheskiye i opticheskiye issledovaniya v Indiyskom okeane, 1975.
Sb24	-	Itogi nauki i tekhniki. Okeanologiya, no. 3, 1975.

Sb25	-	Simpozium po fizicheskoy akustike gidrodinamicheskikh yavleniy, Sukhumi, 1975. Moskva, Nauka, 1975.
Sb26	-	Novyye metody kontrolya vodno-solevogo rezhima melioriruyemykh zemel'. Moskva, 1974.
Sb27	-	Zapominayushchiye ustroystva. Kiyev, 1975.
Sb28	-	Vsesoyuznaya shkola po golografii. 7th. Materialy. Leningrad, 1975.
Sb29	-	Registriruyushchiye sredy dlya golografii. Leningrad, Nauka, 1975.
Sb30	-	Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya "Sovremennoye sostoyaniye i perspektivy vysokoskorostnoy fotografii i kinematografii i metrologii bystroprotekayushchikh protsessov." Tezisy dokladov, Moskva, 1975.
Sb31	-	Radioelektronika. Voronezh, 1975.
Sb32	-	Voprosy issledovaniya fizicheskikh svoystv tverdovykh tel i obrabotki informatsii v diapazone radiochastot. Yaroslavl', 1975.
Sb33	-	Problemy golografii, no. 5, Moskva, 1975.
Sb34	-	Avtomaticheskiye distantsionnyye i optiko-mekhanicheskiye metody issledovaniya bystroprotekayushchikh protsessov. Moskva, 1976.
Sb35	-	Issledovaniye materialov v usloviyakh luchistoy nagreva. Kiyev, Naukova dumka, 1975.
Sb36	-	Fizika goreniya i metody yeye issledovaniya, no. 5, Cheboksary, 1975.
Sb37	-	Izmeritel'nyye informatsionnyye sistemy, v. 2, Kishinev, 1975.
Sb38	-	Nauchnaya konferentsiya po matematike i mekhanike. 5th. Materialy, v. 2, Tomsk, Tomskiy universitet, 1975.
Sb39	-	Nauchnyye pribory, no. 7, Moskva, 1975.
Sb40	-	Termodinamicheskiye svoystva metalicheskikh splavov. Baku, Elm, 1975.
Sb41	-	Spektroskopiya i luminestsentsiya. Minsk, 1975.

Sb42	-	Problemy fizicheskoy optiki i metrologii. Moskva, 1975.
Sb43	-	Ob''yedinennyy seminar po vychislitel'noy fizike, Sukhumi, 1973. Materialy. Tbilisi, Tbilisskiy universitet, 1976.
TKiT	-	Tekhnika kino i televideniya
Tr1	-	Moskovskoye vyssheye tekhnicheskoye uchilishche. Trudy, no. 199, 1974.
Tr2	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 170, 1975.
Tr3	-	AN SSSR. Fizicheskiy institut. Trudy, no. 85, 1976.
Tr4	-	Tsentral'nyy aerogidrodinamicheskiy institut. Uchenyye zapiski, v. 6, no. 5, 1975.
Tr5	-	Moskovskiy energeticheskiy institut. Trudy, no. 278, 1975.
Tr6	-	Moskovskiy aviatsionnyy institut. Trudy, no. 332, 1975.
Tr7	-	AN SSSR. Fizicheskiy institut. Trudy, no. 83, 1975.
Tr8	-	Moskovskiy energeticheskiy institut. Trudy, no. 279, 1975.
Tr9	-	Institut eksperimental'noy meteorologii. Trudy, no. 13(58), 1976.
Tr10	-	Leningradskiy gidrometeorologicheskiy institut. Trudy, no. 50, 1974.
Tr11	-	Institut eksperimental'noy meteorologii. Trudy, no. 11(54), 1975.
Tr12	-	Moskovskiy institut radiotekhniki, elektroniki i avtomatiki. Trudy, no. 74, 1975.
Tr13	-	Moskovskiy aviatsionnyy institut. Trudy, no. 325, 1975.
Tr14	-	Ryazanskiy radiotekhnicheskiy institut. Trudy, no. 66, 1975.
Tr15	-	Leningradskiy institut Kinoinzhenerov. Trudy, no. 27, 1975(1976).
Tr16	-	Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut khimiko-fotograficheskoy promyshlennosti. Sbornik nauchnykh trudov, no. 19, 1975.

Tr17	-	Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut. Trudy, no. 78, 1975.
Tr18	-	Gosudarstvennyy opticheskiy institut. Trudy, v. 42, no. 176, 1975.
Tr19	-	Moskovskiy institut tonkoy khimicheskoy tekhnologii. Trudy, v. 5, no. 2, 1975.
Tr20	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 169, 1975.
Tr21	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 175, 1975.
Tr22	-	VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy. Trudy, no. 19(49), 1975.
Tr23	-	Trudy metrologicheskikh institutov SSSR. VNII metrologii, no. 164(224), 1974.
Tr24	-	Moskovskiy inzhenerno-stroitel'skiy institut. Sbornik trudov, no. 125-126, 1975.
Tr25	-	Latviyskiy universitet. Uchenyye zapiski, no. 231, 1975.
Tr26	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 171, 1975.
TVT	-	Teplofizika vysokikh temperatur
UFN	-	Uspekhi fizicheskikh nauk
UFZh	-	Ukrainskiy fizicheskiy zhurnal
VMU	-	Moskovskiy universitet. Vestnik. Seriya fizika, astronomiya
VNIIGMI-MTsD	-	Vsesoyuznyy nauchno-issledovatel'skiy institut gidrometeorologicheskoy informatsii -- Mirovoy tsentr dannykh. Meteorologiya, part 1.
ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhNiPFiK	-	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii
ZhPMTF	-	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki

ZhPS	-	Zhurnal prikladnoy spektroskopii
ZhTF	-	Zhurnal tekhnicheskoy fiziki
ZhTF P	-	Pis'ma v Zhurnal tekhnicheskoy fiziki
ZL	-	Zavodskaya laboratoriya

V. CUMULATIVE AFFILIATIONS LIST

NS. Non-Soviet

0. Affiliation not given

1. Physics Institute im. Lebedev, AN SSSR, Moscow (Fizicheskiy institut im. Lebedeva AN SSSR).

2. Moscow State University (Moskovskiy gosudarstvennyy universitet).

3. Institute of Physics, AN BSSR, Minsk (Institut fiziki, AN BSSR).

4. Leningrad Physical-technical Institute im. Ioffe (Fiziko-tekhnicheskiy institut im. Ioffe).

5. Institute of Physics, AN UkrSSR, Kiev (Institut fiziki, AN UkrSSR).

6. Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov, AN UkrSSR).

7. State Optical Institute im. Vavilov, Leningrad (Gosudarstvennyy opticheskiy institut im. Vavilova).

8. Radiophysics Scientific Research Institute at Gorkiy State University (Gor'kovskiy nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gos. universitete).

9. Institute of Radiophysics and Electronics, Siberian Branch AN SSSR, Novosibirsk (Institut radiofiziki i elektroniki, Sibirskoye otdeleniye AN SSSR).

10. Institute of Semiconductor Physics of the Siberian Branch, AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov, Sib. otdel AN SSSR).

11. Kazan' State University (Kazanskiy gos. universitet).

12. Leningrad State University (Leningradskiy gos. universitet).

13. Institute of Crystallography, AN SSSR, Moscow (Institut kristallografiya, AN SSSR).

14. University of Friendship Among Nations im. Lumumba, Moscow (Universitet druzhby narodov im. Lumumby).

15. Institute of Radio Engineering and Electronics, AN SSSR, Moscow (Institut radiotekhniki i elektroniki, AN SSSR).

16. Moscow Engineering Physics Institute (Moskovskiy inzhenerno-fizicheskiy institut).

17. Institute of Mechanical Problems, AN SSSR, Moscow (Institut problem mekhaniki, AN SSSR).

18. Institute of General and Inorganic Chemistry im. Kurnakov, AN SSSR, Moscow (Institut obshchey i neorganicheskoy khimii im. Kurnakova, AN SSSR).

19. Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut).

20. All Union Scientific Research Institute of Physicotechnical and Electronic Measurements, Moscow (Vsesoyuznyy nauchno-issled. institut fiziko-tekhnicheskikh i elektronnykh izmereniy).

21. Acoustics Institute, AN SSSR, Moscow (Akusticheskiy institut, AN SSSR).

22. Institute of metallurgy im. Baykov, Moscow (Institut metallurgii im. Baykova).

23. Institute of Atomic Energy im. Kurchatov, Moscow (Institut atomnoy energii im. Kurchatova).

24. Moscow Higher Technical College im. Bauman (Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana).

25. Moscow Scientific Research Institute of Instrument Manufacture (Moskovskiy nauchno-issled. institut instrumental'nogo proizvodstva).

26. Central Scientific Research Institute of the Ministry of Defense, Moscow (Tsentral'nyy nauchno-issled. institut Ministerstva oborony).

27. All Union Scientific Research Institute of Textile and Light Machinery, Moscow (VNII tekstil'nogo i legkogo mashinostroyeniya).

28. Leningrad Opticomechanical Society (Leningradskoye optiko-mekhanicheskoye obshchestvo).

29. Leningrad Polytechnic Institute (Leningradskiy politekhnicheskiy institut).

30. Leningrad Institute of Precision Mechanics and Optics (Leningradskiy institut tochnoy mekhaniki i optiki).

31. Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR).

32. Physics Scientific Research Institute at Leningrad State University (Fizicheskiy NII pri Leningradskom gos. universitete).

33. Institute of Silicate Chemistry im. Grebanshchikov, AN SSSR, Leningrad (Institut khimii silikatov im. Grebanshchikova AN SSSR).

34. Khar'kov State University (Khar'kovskiy gos. universitet).

35. Khar'kov Institute of Radioelectronics (Khar'kovskiy institut radioelektroniki).

36. Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR).

37. Yerevan State University (Yerevanskiy gos. universitet).

38. Kazan' Physicotechnical Institute (Kazanskiy fiziko-tekhnicheskiy institut).

39. Institute of Cybernetics, AN GruzSSR (Institut kibernetiki AN GruzSSR).

40. Tbilisi State University (Tbilisskiy gos. universitet).

41. Rostov-on-Don State University (Rostovskiy-na-Donu gos. universitet).

42. Ural Polytechnic Institute im. Kirov, Sverdlovsk (Ural'skiy politekhnicheskiy institut im. Kirova).

43. Ural State University, Sverdlovsk (Ural'skiy gos. universitet).

44. Institute of Applied Physics, AN MSSR, Kishinev (Institut prikladnoy fiziki AN MSSR).

45. Saratov State University (Saratovskiy gos. universitet).

46. Novosibirsk State University (Novosibirskiy gos. universitet).

47. Siberian Physicotechnical Institute im. Kuznetsov, Tomsk (Sibirskiy fiziko-tekhnicheskiy institut im. Kuznetsova).

48. Tomsk Institute of Radio Engineering and Electronics (Tomskiy institut radiotekhniki i elektroniki).

49. Vilnus State University (Vil'nyusskiy gos. universitet).

50. Institute of Semiconductor Physics, AN LitSSR, Vilnus (Institut fiziki poluprovodnikov, AN LitSSR).

51. Kiev State University (Kiyevskiy gos. universitet).

52. Joint Institute of Nuclear Research, Dubna (Ob"yedinennyy institut yadernykh issledovaniy).

53. Chernovtsy State University (Chernovitskiy gos. universitet).

54. Taganrog Radio Engineering Institute (Taganrozhskiy radiotekhnicheskiy institut).

55. Physicotechnical Institute, AN TurkSSR, Ashkhabad (Fiziko-tekhnicheskiy institut AN TurkSSR).

56. Nezhin State University (Nezhinskiy gos. universitet).

57. All Union Machine Construction Institute, Kramatorsk (Vsesoyuznyy mashinostroitel'nyy institut).

58. Kemerova State Pedagogical Institute (Kemerovskiy gos. pedagogicheskiy institut).

59. Institute of Physics Research, AN ArmSSR (Institut fizicheskikh issledovaniy AN ArmSSR).

60. Institute of Physics, AN AzSSR (Institut fiziki AN AzSSR).

61. Institute of Physics and Astronomy, AN EstSSR (Institut fiziki i astronomii AN EstSSR).

62. Institute of Geophysics, AN GruzSSR (Institut geofiziki AN GruzSSR).

63. Institute of Physics, AN LatSSR (Institut fiziki AN LatSSR).

64. Institute of Atmospheric Physics, AN SSSR (Institut fiziki atmosfery AN SSSR).

65. Institute of Problems of Physics, AN SSSR (Institut fizicheskikh problem AN SSSR).

66. Institute of Solid State Physics, AN SSSR (Institut fiziki tverdogo tela AN SSSR).

67. Institute of Physics of Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR).

68. Institute of Space Research, AN SSSR (Institut kosmicheskikh issledovaniy AN SSSR).

69. Institute of Oceanography, AN SSSR (Institut okeanologii AN SSSR).

70. Institute of Organic and Physical Chemistry, AN SSSR (Institut organicheskoy i fizicheskoy khimii AN SSSR).

71. Institute of Applied Mathematics, AN SSSR (Institut prikladnoy matematiki AN SSSR).

72. Institute of Spectroscopy, AN SSSR (Institut spektroskopii AN SSSR).

73. Institute of Theoretical Physics im. Landau, AN SSSR (Institut teoreticheskoy fiziki im. Landau AN SSSR).

74. Institute of High Temperatures, AN SSSR (Institut vysokikh temperatur AN SSSR).

75. Institute of Automation and Electronic Measurements, Siberian Branch AN SSSR (Institut avtomatiki i elektrometrii SOAN).

76. Institute of Hydrodynamics, Siberian Branch AN SSSR (Institut gidrodinamiki SOAN).

77. Institute of Inorganic Chemistry, Siberian Branch AN SSSR (Institut neorganicheskoy khimii SOAN).

78. Institute of Atmospheric Optics, Siberian Branch AN SSSR (Institut optiki atmosfery SOAN).

79. Institute of Nuclear Physics, Siberian Branch AN SSSR (Institut yadernoy fiziki SOAN).

80. Computer Center, Siberian Branch AN SSSR (Vychislitel'nyy tsentr SOAN).

81. Physicomechanical Institute, AN UkrSSR (Fiziko-mekhanicheskiy institut AN UkrSSR).

82. Physicotechnical Institute, AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR).

83. Institute of Problems in Material Studies, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR).

84. Institute of Radiophysics and Electronics, AN UkrSSR (Institut radiofiziki i elektroniki AN UkrSSR).

85. Institute of Nuclear Physics, AN UzSSR (Institut yadernoy fiziki AN UzSSR).

86. Azerbaydzhan State University (Azerbaydzhanskiy gos. universitet).

87. Belorussian State University (Belorusskiy gos. universitet).

88. Dagestan State University (Dagestanskiy gos. universitet).

89. Donetsk State University (Donetskiy gos. universitet).

90. Electrotechnical Institute of Communications (Elektrotekhnicheskiy institut svyazi).

91. Power Institute im. Krzhizhanovskiy (Energeticheskiy institut im. Krzhizhanovskogo).

92. Physicochemical Institute im. Karpov (Fiziko-khimicheskiy institut im. Karpova).

93. Gor'kiy Physicotechnical Research Institute at Gor'kiy State University (Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut pri Gor'kovskom gos. universitete).

94. Gor'kiy State University (Gor'kovskiy gos. universitet).

95. State Scientific Research and Planning Institute of the Rare Metals Industry (GIREDMET, Gos. NI proyektnyy institut redkometallicheskoy promyshlennosti).

96. State Scientific Research Institute of Photochemical Planning (GOSNIIKhIMFOTOPROYEKT).

97. Georgian Polytechnical Institute (Gruzinskiy politekhnicheskiy institut).

98. Institute of Nuclear Physics at Moscow State University (Institut yadernoy fiziki pri Moskovskom gos. universitete).

99. Institute of Mechanics and Physics, Saratov (Institut mekhaniki i fiziki).

100. Institute of Oncology im. Petrov (Institut onkologii im. Petrova).

101. Ivanovo State Medical Institute (Ivanovskiy gos. meditsinskiy institut).

102. Ivanovo Chemicotechnological Institute ((vanovskiy khimiko-tekhnologicheskiy institut).

103. Ivanovo Pedagogical Institute (Ivanovskiy pedagogicheskiy institut).

104. Kaunas Polytechnic Institute (Kaunasskiy politekhnicheskiy institut).

105. Kazan' Civil Engineering Institute (Kazanskiy inzhenernostroitel'skiy institut).

106. Kiev Polytechnic Institute (Kiyevskiy politekhnicheskiy institut).

107. Khar'kov State Scientific Research Institute of Metrology (Khar'kovskiy gos. NII metrologii).

108. Khar'kov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut).

109. Latvian State University (Latviyskiy gos. universitet).

110. Leningrad Electrotechnical Institute (Leningradskiy elektrotekhnicheskiy institut).

111. Leningrad Mining Institute (Leningradskiy gornyy institut).

112. Leningrad Institute of Soviet Trade (Leningradskiy institut Sovetskoy torgovli).

113. Leningrad Mechanical Institute (Leningradskiy mekhanicheskiy institut).

114. L'vov State University (L'vovskiy gos. universitet).

115. L'vov Polytechnic Institute (L'vovskiy politekhnicheskiy institut).

116. Moscow Aviation Institute (Moskovskiy aviatsionnyy institut).

117. Moscow Mining Institute (Moskovskiy gornyy institut).

118. Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut).

119. Moscow Institute of Electronic Engineering (Moskovskiy institut elektronnoy tekhniki).

120. Moscow Institute of Engineers of Geodesy, Aerial Photography and Cartography (Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii).

121. Moscow Institute of Chemical Machinery (Moskovskiy institut khimicheskogo mashinostroyeniya).

122. Scientific Research Institute of Physicochemistry im. Karpov (NI fiziko-khimicheskiy institut im. Karpova).

123. Novosibirsk Institute of Automation and Electrometallurgy (Novosibirskiy institut avtomatiki i elektrometallurgii).

124. Odessa Scientific Research Institute of Eye Diseases and Tissue Therapy (Odesskiy NII glaznykh bolezney i tkanevoy terapii).

125. Odessa Technological Institute of Refrigeration Industry (Odesskiy tekhnologicheskiy institut kholodil'noy promyshlennosti).

126. Omsk Polytechnic Institute (Omskiy politekhnicheskiy institut).

127. Rostov Civil Engineering Institute (Rostovskiy inzhenerno-stroitel'nyy institut).

128. Ryazan' Radiotechnical Institute (Ryazanskiy radiotekhnicheskiy institut).

129. Siberian State Scientific Research Institute of Metrology (Sibirskiy gos. NII metrologii).

130. Tadzhik State University (Tadzhikskiy gos. universitet).

131. Tartu State University (Tartusskiy gos. universitet).

132. Tomsk State University (Tomskiy gos. universitet).

133. Central Aerohydrodynamic Institute im. Zhukovskiy (Tsentral'nyy aerogidrodinamicheskiy institut im. Zhukovskogo).

134. Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya).

135. Central Scientific Research Institute of Communications (Tsentral'nyy NII svyazi).

136. Uzhgorod State University (Uzhgorodskiy gos. universitet).

137. Voronezn State University (Voronezhskiy gos. universitet).

138. Voronezh Polytechnic Institute (Voronezhskiy politekhnicheskiy institut).

139. All Union Electrotechnical Institute (Vsesoyuznyy elektrotekhnicheskiy institut).

140. All Union Scientific Research Institute of Physicotechnical and Radiotechnical Measurements (VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy, VNIFTRI).

141. All Union Scientific Research Institute of Opticophysical Measurements (VNII optiko-fizicheskikh izmereniy).

142. All Union Scientific Research Institute for Synthesis of Mineral Ore (VNII sinteza mineral'nogo syrya).

143. All Union Scientific Research Institute of Synthetic Rubber (VNII sinteticheskogo kauchuka).

144. All Union Scientific Research Institute of Television and Radio Broadcasting (VNII televideniya i radioveshchaniya).

145. All Union Correspondence Electrotechnical Institute of Communications (Vsesoyuznyy zaochnyy elektrotekhnicheskiy institut svyazi).

146. Yerevan Physics Institute (Yerevanskiy fizicheskiy institut).

147. Moscow Highway Institute (Moskovskiy avtodorozhnyy institut, MADI).

148. Institute of Terrestrial Magnetism, the Ionosphere and Radiowave Propagation, AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR, IZMIRAN).

149. Leningrad Shipbuilding Institute (Leningradskiy korablestroitel'nyy institut).

150. Dnepropetrovsk State University (Dnepropetrovskiy gos universitet).

151. Kishinev State University (Kishinevskiy gos universitet).

152. Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov, MISI).

153. Kiev Civil Engineering Institute (Kiyevskiy inzhenerno-stroitel'skiy institut, KISI).

154. Marine Hydrophysical Institute, AN UkrSSR (Morskoy gidrofizicheskiy institut AN UkrSSR).

155. North Ossetian State University (Severo-Osetinskiy gos universitet).

156. Mountain Agricultural Institute (Gorskiy sel'skokhozyaystvennyy institut).

157. All Union Scientific Research, Planning and Design Institute of Electric Equipment, Khar'kov (VNI i proyektno-konstruktorskiy institut elektroaparatov).

158. Military Medical Academy, Leningrad (Voyenno-meditsinskaya akademiya).

159. Institute of Thermophysics, Siberian Branch, AN SSSR, Novosibirsk (Institut teplofiziki SOAN).

160. Scientific Research Institute of Hydrometeorological Instrument Manufacture (*NII gidrometeorologicheskogo priborostroyeniya*).

161. Moscow Institute of Radio Engineering, Electronics and Automation (Moskovskiy institut radiotekhnika, elektroniki i avtomatiki).

162. Moscow State Pedagogical Institute (Moskovskiy gos pedagogicheskiy institut).

163. All Union Scientific Research Institute of Metrology im. Mendeleyev (VNII metrologii im Mendeleyeva).

164. Special Design Bureau for Analytical Instrument Manufacture, AN SSSR (*Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya* AN SSSR).

165. Kazan' Command Engineering College (Kazanskoye vyssheye komandno-inzhenernoye uchilishche).

166. Riga Polytechnic Institute (Rizhskiy politekhnicheskiy institut).

167. Institute of Petrochemical Synthesis im. Topchiyev, AN SSSR, Moscow (Institut neftekhimicheskogo sinteza im Topchiyeva AN SSSR).

168. Institute of Electric Welding im. Paton, AN UkrSSR, Kiev (Institut elektrosvarki im Patona AN UkrSSR).

169. Department of Telecommunications of the All Union State Planning, Surveying and Scientific Research Institute of Power Systems and Electric Power Networks (Otdel dal'nykh peredach Vsesoyuznogo gosudarstvennogo proyektno-izyskatel'skogo i NII energeticheskikh sistem i elektricheskikh setey, Energoset'proyekt).

170. Moscow Machine Tool Institute (Moskovskiy stankoinstrumental'nyy institut).

171. Leningrad Institute for the Advanced Training of Physicians (Leningradskiy institut usovershenstvovaniya vrachey).

172. Main Astronomical Observatory, AN UkrSSR (Glavnaya astronomicheskaya observatoriya AN UkrSSR).

173. Ul'yanovsk Polytechnic Institute (Ul'yanovskiy politekhnicheskiy institut).

174. Scientific Research Institute of Organic Intermediates and Dyestuffs, Moscow (NII organicheskikh poluproduktov i krasiteley).

175. Arctic and Antarctic Scientific Research Institute, Leningrad (Arkticheskiy i antarkticheskiy NII).

176. Moscow Geological Prospecting Institut im. Ordzhonikidze (Moskovskiy geologorazvedochnyy institut im Ordzhonikidze).

177. Riga Institute for Civil Aviation Engineers (Rizhskiy institut inzhenerov grazhdanskoy aviatsii).

178. Moscow Institute of Chemical Technology im. Mendeleyev (Moskovskiy khimiko-tekhnicheskiy institut im Mendeleyeva).

179. Moscow Institute of Fine Chemical Technology im. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii im Lomonosova).

180. Institute of Heat and Mass Exchange, AN BSSR (Institut teplo- i massoobmena AN BSSR).

181. Institute of Nuclear Research, AN UkrSSR, Kiev (Institut yadernykh issledovaniy AN UkrSSR).

182. Kiev Communications College of Military Engineering (Kiyevskoye vyssheye voyennoye inzhenernoye uchilishche svyazi).

183. Physico-technical Institute, AN BSSR (Fiziko-tekhnicheskiy institut AN BSSR).

184. Institute of Geochemistry and Analytical Chemistry im. Vernadskiy, AN SSSR, Moscow (Institut geokhimii i analiticheskoy khimii im Vernadskogo AN SSSR).

185. Gor'kiy Polytechnic Institute (Gor'kovskiy politekhnicheskiy institut).

186. Kishinev Pedagogical Institute (Kishinevskiy pedagogicheskiy institut).

187. Institute of Epidemiology and Microbiology im. Gameleya, AMN SSSR, Moscow (Institut epidemiologii i mikrobiologii im Gamelei AMN SSSR).

188. All Union Scientific Research Institute of Single Crystals, Khar'kov (VNII monokristallov).

189. Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut).

190. Central Scientific Research Institute of the Maritime Fleet (Tsentral'nyy NII morskogo flota).

191. Karaganda Polytechnic Institute (Karagandinskiy politekhnicheskiy institut).

192. Belorussian Technological Institute (Belorusskiy tekhnologicheskiy institut).

193. Institute of Theoretical and Applied Mechanics, Siberian Branch, AN SSSR, Novosibirsk (Institut teoreticheskoy i prikladnoy mekhaniki SOAN).

194. VIOGEM

195. Northwest Correspondence Polytechnic Institute (Severo-Zapadnyy zaochnyy politekhnicheskiy institut).

196. Institute of Organic Chemistry im. Zelinskiy, AN SSSR (Institut organicheskoy khimii im Zelinskogo AN SSSR).

197. Tomsk Polytechnic Institute (Tomskiy politekhnicheskiy institut).

198. Institute of Mineral Fuels, Moscow (Institut goryuchikh iskopayemykh).

199. Moscow Institute of Electronic Machinery (Moskovskiy institut elektronnogo mashinostroyeniya).

200. Khar'kov Aviation Institute (Khar'kovskiy aviatsionyy institut).

201. Institute for Problems of Information Transmission, AN SSSR, Moscow (Institut problem peredachi informatsii AN SSSR).

202. Institute of Electronics, AN UzSSR, Tashkent (Institut elektroniki AN UzSSR).

203. Institute of General and Inorganic Chemistry, AN ArmSSR, Yerevan (Institut obshchey i neorganicheskoy khimii AN ArmSSR).

204. Institute of General Genetics, AN SSSR, Moscow (Institut obshchey genetiki AN SSSR).

205. Moscow X-ray Radiological Scientific Research Institute (Moskovskiy NI rentgeno-radiologicheskiy institut).

206. Institute of Geology and Geophysics, Siberian Branch, AN SSSR, Novosibirsk (Institut geologii i geofiziki SOAN).

207. Main Geophysical Observatory (Glavnaya geofizicheskaya observatoriya).

208. Tula Polytechnic Institute (Tul'skiy politekhnicheskiy institut).

209. Moscow Institute of Precision Mechanics and Computer Technology (Moskovskiy institut tochnoy mekhaniki i vychislitel'noy tekhniki).

210. Institute of Physics, Siberian Branch, AN SSSR (Institut fiziki SOAN).

211. Kalinin Polytechnic Institute (Kalininskiy politekhnicheskiy institut).

212. Kuban' State University (Kubanskiy gos universitet).

213. Leningrad Technological Institute (Leningradskiy tekhnologicheskiy institut).

214. Kazan' Pedagogical Institute (Kazanskiy pedagogicheskiy institut).

215. Physico-technical Institute, AN TadzhSSR (Fiziko-tekhnicheskiy institut AN TadzhSSR).

216. Kazan' Aviation Institute (Kazanskiy aviatsionnyy institut).

217. Poltava Civil Engineering Institute (Poltavskiy inzhenerno-stroitel'nyy institut).

218. Second Moscow State Medical Institute im. Pirogov (Vtoroy Moskovskiy meditsinskiy institut im Pirogova

219. Belorussian Polytechnic Institute, Minsk (Belorusskiy politekhnicheskiy institut).

220. Institute of Experimental Meteorology (Institut eksperimental'noy meteorologii).

221. All Union Scientific Research Institute of Hydraulic Engineering (VNII gidrotekhniki).

222. Institute of Surgery im. Vishnevskiy, AMN SSSR (Institut khirurgii im Vishnevskogo AMN SSSR).

223. Central Institute for the Advanced Training of Physicians (Tsentral'nyy institut usovershenstvovaniya vrachey).

224. Yerevan Polytechnic Institute (Yerevanskiy politekhnicheskiy institut).

225. Institute for Problems of Oncology, AN UkrSSR (Institut problem onkologii AN UkrSSR).

226. Leningrad Branch of the Mathematical Institute, AN SSSR (Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR).

227. Tashkent State University (Tashkentskiy gos universitet).

228. Institute of Theoretical Physics, AN UkrSSR (Institut teoreticheskoy fiziki AN UkrSSR).

229. Moscow Aviation Technological Institute (Moskovskiy aviatsionnyy tekhnologicheskiy institut).

230. Novosibirsk Institute for Engineers of Geodesy, Aerial Surveying and Cartography (Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii).

231. Scientific Research Institute of Motion Pictures and Photography (NI kinofotoinstitut, NIKFI).

232. State Scientific Research Institute of Glass (Gosudarstvennyy NII stekla).

233. Ivanovo-Frankov Pedagogical Institute (Ivanovo-Frankovskiy pedagogicheskiy institut).

234. Scientific Research Institute of Civil Aviation (NII grazhdanskoy aviatsii).

235. Tashkent State Pedagogical Institute (Tashkentskiy gos pedagogicheskiy institut).

236. All Union Scientific Research Institute of Mining Geomechanics and Surveying (VNII gornoy geomekhaniki i marksheyderskogo dela).

237. Department of the Physics of Nondestructive Control, AN BSSR (Otdel fiziki nerazrushayushchego kontrolya AN BSSR).

238. Institute of High Pressure Physics, AN SSSR (Institut fiziki vysokikh davleniy AN SSSR).

239. All Union State Planning, Surveying and Scientific Research Institute of Power Systems and Electric Power Networks (Vsesoyuznyy gosudarstvennyy proyektno-izyskatel'skiy i NII energeticheskikh sistem i elektricheskikh setey, ENERGOSET'PROYEKT).

240. Odessa State University (Odesskiy gos universitet).

241. Sverdlovsk State Pedagogical Institute (Sverdlovskiy gos pedagogicheskiy institut).

242. Kazakh State University, Alma Ata (Kazakhskiy gos universitet).

243. Radio Engineering Institute, AN SSSR (Radiotekhnicheskiy institut AN SSSR).

244. Moscow Scientific Research Institute of Television (Moskovskiy NI televizionnyy institut).

245. Novosibirsk State Pedagogical Institute (Novosibirskiy gos pedagogicheskiy institut).

246. Main Astronomical Laboratory, AN SSSR (Glavnaya astronomicheskaya laboratoriya AN SSSR).

247. Scientific Research Institute of Electrophysical Equipment im. Yefremov, Leningrad (NII elektrofizicheskoy apparatury im Yefremova).

248. Institute of Mechanics at Moscow State University (Institut mekhaniki pri Moskovskom gos universitete).

249. Omsk Agricultural Institute (Omskiy sel'skokhozyaystvennyy institut).

250. Sverdlovsk Mining Institute (Sverdlovskiy gornyy institut).

251. Tomsk Institute of Automatic Control Systems and Radioelectronics (Tomskiy institut avtomatizirovannykh sistem upravleniya i radioelektroniki).

252. Leningrad Institute of Nuclear Physics, AN SSSR (Leningradskiy institut yadernoy fiziki AN SSSR).

253. Kirghiz State University (Kirgizskiy gos universitet).

254. Moscow Civil Engineering Institute (Moskovskiy inzhenerno-stroitel'skiy institut).

255. Tallinn Polytechnical Institute (Tallinskiy politekhnicheskiy institut).

256. Far Eastern State University, Vladivostok (Dal'nevostochnyy gos universitet).

257. Comprehensive Institute of Natural Sciences, AN UzSSR, Nukus (Kompleksnyy institut yestyestvennykh nauk AN UzSSR).

258. Institut of Theoretical Astronomy, AN SSSR (Institut teoreticheskoy astronomii AN SSSR).

259. Institut of Physics and Mathematics, AN LitSSR (Institut fiziki i matemateki AN LitSSR).

260. Kazan' Institute of Chemical Technology im. Kirov (Kazanskiy khimiko-tekhnologicheskiy institut im Kirova).

261. Rybinsk Evening Technological Institute (Rybinskiy vecherniy tekhnologicheskiy institut).

262. Physicotechnical Institute, AN UzSSR (Fiziko-tekhnicheskiy institut AN UzSSR).

263. Astrophysical Institute, AN KazSSR (Astrofizicheskiy institut AN KazSSR).

264. Institute of Radiophysics and Electronics, AN ArmSSR (Institut radiofiziki i elektroniki AN ArmSSR).

265. Irkutsk Polytechnical Institute (Irkutskiy politekhnicheskiy institut).

266. Leningrad Forestry-Technical Academy (Leningradskaya lesnotekhnicheskaya akademiya).

267. Laboratory of Electronics, AN BSSR, Minsk (Laboratoriya elektroniki AN BSSR).

268. Scientific Research Institute of Applied Mathematics and Mechanics at Tomsk State University (NII prikladnoy matematiki i mekhaniki pri Tomskom gos universitete).

269. Dnepropetrovsk Metallurgical Institute, Zaporozh'ye Branch (Dnepropetrovskiy metallurgicheskiy institut, Zaporozhskiy filial).

270. Special Astrophysical Observatory, AN SSSR, Leningrad Branch (Spetsial'naya astrofizicheskaya observatoriya AN SSSR, Leningradskiy filial).

271. Ul'yanovsk State Pedagogical Institute im Ul'yanov (Ul'yanovskiy gos pedagogicheskiy institut im Ul'yanova).

272. Military Engineering Radio Engineering Academy of Air Defense im Govorov (Voyenno-inzhenernaya radiotekhnicheskaya akademiya protivovozdushnoy oborony im Govorova).

273. Military Command Academy of Air Defense (Voyennaya komandnaya akademiya protivovozdushnoy oborony).

274. Donets Physico-technical Institute, AN UkrSSR (Donetskiy fiziko-tekhnicheskiy institut AN UkrSSR).

275. Moscow Electrotechnical Institute of Communications (Moskovskiy elektrotekhnicheskiy institut svyazi).

276. Institute of Physics of the Earth im. Shmidt, AN SSSR (Institut fiziki Zemli im. Shmidta AN SSSR).

277. Leningrad Institute of Aviation Instruments (Leningradskiy institut aviatsionnogo priborostroyeniya).

278. Samarkand State University (Samarkandskiy gos universitet).

279. Moscow Institute of the Petrochemical and Gas Industry im. Gubkin (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im Gubkina).

280. Moscow Scientific Research Institute of Eye Diseases im. Gel'mgol'ts (Moskovskiy NII glaznykh bolezney im. Gel'mgol'tsa).

281. Institute for Improving the Qualifications of Supervisory Workers and Specialists (Institut povysheniya kvalifikatsii rukovodyashchikh rabotnikov i spetsialistov).

282. Scientific Research Institute of Physics, Odessa (NII fiziki, Odessa).

283. Institute of Physics of Metals, AN UkrSSR, Kiev (Institut metallofiziki AN UkrSSR).

284. Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy metallurgicheskiy institut).

285. Institute of Problems of Control (Institut problem upravleniya).

286. Institute of Biological Physics, ANSSSR, Pushchino (Institut biologicheskoy fiziki AN SSSR).

287. Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR).

288. Moscow Electrovacuum Instruments Plant (Moskovskiy zavod elektrovakuumnykh priborov).

289. Central Scientific Research Institute of Geodesy, Aerial Surveying and Cartography (Tsentral'nyy NII geodezii, aeros"yemki i kartografii).

290. All Union Scientific Research Institute of Medical Instrument Manufacture (VNII meditsinskogo priborostroyeniya).

291. Rostov-on-Don Institute of Railroad Transportation Engineers (Rostovskiy-na-Donu inzhenerov zheleznodorozhnogo transporta).

292. Naval Academy, Leningrad (Voyenno-morskaya akademiya).

293. Moscow Institute of Transportation Engineers (Moskovskiy institut inzhenerov transporta).

294. Institute of Chemistry, Bashkir Branch, AN SSSR (Institut khimii Bashkirskogo filiala AN SSSR).

295. Institute of Chemical Kinetics and Combustion, Siberian Branch, AN SSSR, Novosibirsk (Institut khimecheskoy kinetiki i goreniya SOAN).

296. Tbilis Branch of the All Union Correspondence Electrotechnical Institute of Communications (Tbiliskiy filial Vsesoyuznogo zaochnogo elektrotekhnicheskogo instituta svyazi).

297. Institute of Chemistry, AN SSSR, Gor'kiy (Institut khimii AN SSSR).

298. Institute of Electrodynamics, AN UkrSSR (Institut elektrodinamiki AN UkrSSR).

299. Institute of Electronics, AN BSSR (Institut elektroniki AN BSSR).

300. Institute of Cybernetics, AN UzSSR (Institut kibernetiki AN UzSSR).

301. All Union Scientific Research Institute of Luminophors and High Purity substances (VNII lyuminoforov i osobo chistykh veshchestv).

302. State Scientific Research Institute of Radio (Gosudarstvennyy NII radio).

303. L'vov Branch of Mathematical Physics of the Institute of Mathematics, AN UkrSSR (L'vovskiy filial matematicheskoy fiziki Instituta matematiki AN UkrSSR).

304. Institute of Organic Chemistry, AN UkrSSR, Kiev (Institut organicheskoy khimii AN UkrSSR).

305. Central Construction Bureau of Motion Picture Equipment (Tsentral'noye konstruktorskoye byuro kinoapparatury).

306. State Oceanographic Institute (Gosudarstvennyy okeanograficheskiy institut).

307. Institute of Thermophysics and Electrophysics, AN EstSSR (Institut termofiziki i elektrofiziki AN EstSSR).

308. Moscow Institute of Railroad Transport Engineers (Moskovskiy institut inzhenerov zheleznodorozhnogo transporta).

309. Pervomayskugol' combine (Kombinat "Pervomayskugol'").

310. Kadiyevka Branch of the Kommunarsk Mining-Metallurgical Institute (Kadiyevskiy filial Kommunarskogo gorno-metallurgicheskogo instituta).

311. All Union Scientific Research Institute of Mineral Resources, Moscow (VNII mineral'nogo syr'ya).

312. Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii).

313. Scientific Research Institute of Applied Physics at Irkutsk State University (NII prikladnoy fiziki pri Irkutskom gos universitete).

314. Moscow Oncological Scientific Research Institute im Gertsen (Moskovskiy NI onkologicheskiy institut im Gertsena).

315. Tbilis Branch of the All-Union Scientific Research Institute of Metrology im Mendeleyev (Tbilisskiy filial VNII metrologii im Mendeleyeva).

316. Dagestan Polytechnic Institute, Makhachkala (Dagestanskiy politekhnicheskiy institut).

317. Saratov Polytechnic Institute (Saratovskiy politekhnicheskiy institut).

318. Scientific Research Institute of Direct Current (NII postoyannogo toka).

319. Alma-Ata State Medical Institute (Alma-Atinskiy gosudarstvennyy meditsinskiy institut).

320. Kaliningrad State University (Kaliningradskiy gos universitet).

321. Mogilev Branch of the Institute of Physics, AN BSSR (Mogilevskiy filial Institute fiziki AN BSSR).

322. Lower Volga Civil Engineering Surveys Trust (Nizhne-Volzhskiy trest inzhenerno-stroitel'skikh izyskaniy).

323. Leningrad Institute of Motion Picture Engineers (Leningradskiy institut kinoinzhenerov).

324. Physicotechnical Institute, Sukhumi (Fiziko-tekhnicheskiy institut).

325. Scientific Research Institute of Physics, Rostov-on-Don (NII fiziki, Rostov-na-Donu).

326. Institute of Radioelectronics, AN SSSR (Institut radioelektroniki AN SSSR).

327. Novosibirsk Electrotechnical Institut (Novosibirskiy elektrotekhnicheskiy institut).

328. All-Union Civil Engineering Correspondence Institut, Moscow (Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut).

329. Leningrad Scientific Research and Planning Institute of the Basic Chemical Industry (Leningradskiy NI i proyektnyy institut osnovnoy khimicheskoy promyshlennosti).

330. Microbiology Sector, AN AzSSR (Sektor mikrobiologii AN AzSSR).

331. Rovenskiy Pedagogical Institute im Manuil'skiy (Rovenskiy pedagogicheskiy institut im Manuil'skogo).

332. Frunze Polytechnic Institute (Frunzinskiy politekhnicheskiy institut).

333. Chernorechenskiy Chemical Combine, Dzerzhinsk (Chernorechenskiy khimicheskiy kombinat).

334. Scientific Research Institute of Applied Physical Problems at Belorussian State University (NII prikladnykh fizicheskikh problem pri Belorusskom gos universitete).

335. Institute of Electrochemistry, AN SSSR (Institut elektrokhimi AN SSSR).

336. Scientific Research Institute of Nuclear Physics, Electronics and Automation at Tomsk Polytechnic Institute (NII yadernoy fiziki, elektroniki i avtomatiki pri Tomskom politekhnicheskom institut).

337. Computer Center, AN SSSR (Vychislitel'nyy tsentr AN SSSR).

338. Ministry of Geology, USSR (Ministerstvo geologii SSSR).

339. Computer Center, AN ArmSSR (Vychislitel'nyy tsentr AN ArmSSR).

340. All-Union Scientific Research Institute of Light and Textile Machine Building, Moscow (VNII legkogo i tekstil'nogo mashinostroyeniya).

341. All-Union Scientific Research Institute of Heat Engineering in Metallurgy, Sverdlovsk (VNII metallurgicheskoy teplotekhniki).

342. Scientific Research, Design and Technological Institute of Heavy Machine Building, Ural Heavy Machinery Plant (NI konstruktorsko-tekhnologicheskiy institut tyazhelogo mashinostroyeniya Ural'skogo zavoda tyazhelogo mashinostroyeniya, NIITYaZhMASh Uralmashzavoda).

343. North Caucasus Scientific Center of Higher Education (Severo-Kavkazskiy nauchnyy tsentr vysshey shkoly).

344. All-Union Scientific Research Institute of Economics of Mineral Raw Materials and Geological Exploration (VNII ekonomiki mineral'nogo syr'ya i geologorazvedochnykh rabot, VIEMS).

345. Institute of Physical Problems, Siberian Branch AN SSSR (Institut fizicheskikh problem SOAN).

346. Chuvash State University (Chuvashskiy GU).

347. Ukrainian Hydrometeorological Scientific Research Institute (Ukrainskiy NI gidrometeorologicheskiy institut).

348. Volgograd State Pedagogical Institute im Serafimovich (Volgogradskiy gosudarstvennyy pedagogicheskiy institut im Serafimovicha).

349. Donetsk Physicotechnical Institute (Donetskiy fiziko-tekhnicheskiy institut).

350. Institute of Applied Geophysics, AN SSSR (Institut prikladnoy geofiziki AN SSSR).

351. All-Union Scientific Research Institute of Physicochemical and Radiotechnical Measurements (VNII fiziko-khimicheskikh i radiotekhnicheskikh izmereniy).

352. Moscow Department of the Scientific Research Institute of Direct Current (Moskovskoye otdeleniye NII postoyannogo toka).

353. First Leningrad Medical Institute (Pervyy Leningradskiy meditsinskiy institut).

354. Moscow Medical Stomatological Institute (Moskovskiy meditsinskiy stomatologicheskiy institut).

355. All-Union Correspondence Institute of Mechanical Engineering (Vsesoyuznyy zaochnyy mashinostroitel'nyy institut).

356. All-Union Scientific Research Institute of Autogenous Machine Building (VNII avtogennogo mashinostroyeniya).

357. Ukrainian Scientific Research Institute of Metals, Khar'kov (Ukrainskiy NII metallov).

358. Institute of Problems of Strength, AN UkrSSR, Kiev (Institut problem prochnosti AN UkrSSR).

359. All-Union Scientific Research Institute of Transportation Construction (VNII transportnogo stroitel'stva).

360. Kazan' Mountain Astronomical Observatory (Kazanskaya gornaya astronomicheskaya observatoriya).

361. Institute of Physiology im Karayev, AN AzSSR (Institut fiziologii im Karayeva AN AzSSR).

362. Leningrad Pedagogical Institute (Leningradskiy pedagogicheskiy institut).

363. Kiev State Pedagogical Institute (Kiyevskiy gos pedagogicheskiy institut).

364. Institute of Machine Science, Moscow (Institut mashinovedeniya).

365. Odessa Hydrometeorological Institute (Odesskiy gidrometeorologicheskiy institut).

366. Institute of Linguistics im Potebin, Ukr SSR, Kiev (Institut yazykovedeniya im Potebina Ukr SSR).

367. All-Union Scientific Research Institute of Glass (VNII stekla).

368. Far Eastern Polytechnical Institute, Vladivostok (Dal'nevostochnyy politekhnicheskiy institut).

369. Krasnoyarsk Institute of Nonferrous Metals im Kalinin (Krasnoyarskiy institut tsvetnykh metallov im Kalinina).

370. Institute of Colloid Chemistry and Chemistry of Water, AN UkrSSR (Institut kolloidnoy khimii i khimii vody AN UkrSSR).

371. Odessa Higher Marine Engineering College (Odesskoye vyssheye inzhenernoye morskoye uchilishche).

372. Khabarovsk Branch of the All Union Scientific Research Institute of Physico-Technical and Radio-Technical Measurements (Khabarovskiy filial VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy).

373. All-Union Scientific Research Institute of Sea Fisheries and Oceanography (VNII morskogo rybnogo khozyaystva i okeanografii).

374. Ural Scientific Research Institute of the Pipe Industry (Ural'skiy NII trubnoy promyshlennosti).

375. Department of Polymer Physics, AN SSSR, Perm' (Otdel fiziki polimerov AN SSSR).

376. Kalinin State University (Kalininskiy GU).

377. Central High Altitude Hydrometeorological Observatory (Tsentral'naya vysotnaya gidrometeorologicheskaya observatoriya).

378. L'vov Electric Measuring Instruments Plant (L'vovskiy zavod elektroizmeritel'nykh priborov).

379. Gomel' State University (Gomel'skiy GU).

380. Odessa Polytechnical Institute (Odesskiy politekhnicheskiy institut).

381. Institute of Hygiene im Erisman (Institut gig yeny im Erismana).

382. Zaporozh'ye Machine Building Institute (Zaporozhskiy mashinostroitel'skiy institut).

383. Institute of Physicochemical Bases of Processing Mineral Resources, Siberian Branch AN SSSR, Novosibirsk (Institut fiziko-khimicheskikh osnov pererabotki mineral'nogo syr'ya SOAN).

384. All-Union Scientific Research, Planning and Design Institute of Metallurgical Machinery (VNI i proyektno-konstruktorskiy institut metallurgicheskogo mash nostroyeniya, VNIIMetmash).

385. Chernovtsy Department of Material Science of the Institute of Semiconductors, AN UkrSSR (Chernovitskoye otdeleniye materialovedeniya Instituta poluprovodnikov AN UkrSSR).

386. Leningrad Hydrometeorological Institute (Leningradskiy gidrometeorologicheskiy institut).

387. Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, AN SSSR (Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, IGEM)

388. Institute of History, Natural Science and Technology, AN SSSR, Moscow (Institut istorii, yestestvoznaniya i tekhniki AN SSSR).

VI. AUTHOR INDEX

A

ABAKUMOV, G. A. 10, 35, 51
ABDEL-KHADI, K. 51
ABDULAYEV, A. A. 18
ABDULLAYEV, N. 31
ABDURAZAKOV, M. SH. 50
ABRAMENKO, P. I. 11
ABRAMOV, A. F. 6
ABROSIMOV, G. V. 21
ABRUKOV, S. A. 80
ADAMUSHKO, A. V. 9
AFANAS'YEV, A. A. 11, 62
AFANAS'YEV, YU. V. 93
AGEKYAN, V. T. 44
AGEYEV, A. N. 60
AISTOV, V. S. 85
AKHMANOV, S. A. 42, 46, 47, 78
AKHMEDIYEV, N. N. 37
AKIMAKINA, L. V. 62
AKIMOV, A. P. 35
AKINFIYEV, P. A. 34
AKTSIPETROV, O. A. 19, 37
AKUL'SHINA, L. G. 51
AL'PEROVICH, M. A. 11
ALAYEV, M. A. 21
ALEKSANDROV, V. T. 32
ALEKSANDROV, V. V. 93
ALEKSEYEV, A. A. 11
ALEKSEYEV, A. V. 97
ALEKSEYEV, B. V. 97
ALEKSEYEV, N. YE. 5
ALEKSEYEV, V. A. 7, 11, 42
ALESHIN, I. V. 89
ALFYOROV, ZH. I. 2, 3
ALI MAKHER ABURABYA 4
ALMAYEV, R. KH. 51, 56
ALTYNAYEV, R. 3
AMBARTSUMYAN, R. V. 74
ANDREYEV, A. V. 46
ANDREYEV, V. M. 2
ANDREYEVA, O. V. 73
ANDREYEVA, T. L. 42
ANDRIANOV, V. M. 34
ANDRIYESH, A. M. 61
ANIKIN, V. I. 57
ANIKIYEV, B. G. 28
ANISIMOV, S. I. 89
ANISIMOV, YU. M. 35
ANOSHIN, A. N. 87
ANTIPENKO, B. M. 26
ANTONEVICH, G. N. 7, 15
ANTONOV, A. V. 60
ANUFRIK, S. S. 6, 11
APANASEVICH, P. A. 37, 47, 62, 91
APATIN, V. M. 74
APOSTOL, I. 88, 92
APOSTOLOV, K. V. 34
ARAKELYAN, S. M. 55
AREF'YEV, V. N. 51
ARIFDZHANOVA, M. S. 31
ARIFOV, U. A. 31
ARISTOV, A. V. 7, 76
ARISTOV, V. V. 62
ARKHIPOV, R. N. 78
ARKHIPOVA, YE. V. 26
ARMAND, S. A. 51
ARSEN'YEV, V. V. 1
ARSENOVICI, L. C. 88, 92
ARSENT'YEV, I. N. 3
ARSLANBEKOV, T. U. 42, 78
ARUSHANOV, S. Z. 92
ASHCHEULOV, YU. V. 62, 71
ASHMARIN, I. I. 62
ASIMOV, M. M. 11
ASRIBEKOV, V. YE. 42
ASTRIK, R. V. 31
ASTROV, YU. A. 31
AUGUSTOV, P. A. 78
AVAKYANTS, L. P. 41
AVDEYEVA, V. I. 11
AYUKHANOV, A. KH. 31
AZHARONOK, V. V. 93
AZIZOV, E. A. 5

B

BABADZHAN, YE. I. 30
BABENKO, N. K. 61
BABEYKO, YU. A. 20
BABIN, A. A. 37
BABKINA, T. V. 2
BACHERIKOV, V. V. 55
BADALYAN, A. M. 92
BAGAYEV, S. N. 78
BAGDASAROV, KH. S. 1
BAGRATASHVILI, V. N. 18
BAKHSHIYEV, N. G. 8, 13
BAKOS, J. 42
BAKUT, P. A. 56
BALAGUROV, A. YA. 22
BALASHOV, N. S. 1
BALASHOVA, A. A. 12
BALKAROV, O. M. 33
BALTRAMEYUNAS, R. 62
BANDERE, D. P. 70
BARACHEVSKIY, V. A. 44, 62, 63, 68, 99
BARANOV, A. I. 21
BARANOV, A. V. 23
BARANOV, V. YU. 18
BARANOVSKIY, V. YU. 18
BARIKHIN, B. A. 7, 12
BARKOVA, L. A. 13
BASHKIN, A. S. 26
BASIYEV, T. T. 2, 79
BASOV, N. G. 19, 20, 26, 74, 93, 94
BASOV, YU. G. 28, 29
BASOVA, T. A. 80
BATISHCHE, S. A. 35
BATYREV, V. A. 11
BAVEL'SKIY, D. M. 79
BAZARNYY, YE. M. 57
BAZAROV, YE. N. 79
BAZHENOV, M. YU. 68
BAZHENOV, YU. M. 63
BAZUNOV, I. V. 41
BEBCHUK, A. S. 12, 92
BEJCEK, J. 4
BEKBULATOV, R. S. 87
BEKKER, A. M. 63, 79
BEL'TS, V. A. 52
BELENOV, E. M. 23
BELINICHER, V. I. 89
BELINSKAYA, G. I. 79
BELKIN, A. M. 30
BELKIN, N. V. 3
BELOKON', M. V. 9, 12
BELOKRINITSKIY, N. S. 79
BELOTSERKOVETS, A. V. 76
BELOUSOV, V. I. 80
BELOUSOVA, L. A. 27
BELOV, V. V. 63, 68
BELYAKOV, L. V. 97
BELYAYEV, V. V. 16
BELYAYEV, YU. N. 37
BELYY, V. I. 63
BELYY, V. N. 42
BERDONOSOV, V. A. 63
BEREZA, V. N. 79
BERGMANN, J. 36
BERGMANN, YA. V. 31
BESSONOVA, A. I. 65
BETEROV, I. M. 7, 12, 36
BETIN, A. A. 35
BEVOV, R. K. 18
BEY, N. A. 58
BEZRODNYY, V. I. 12
BIALYNICKA-BIRULA, Z. 42
BLAGIDZE, YU. M. 58
BLAGOVA, V. A. 84
BLAHA, J. 15
BLASZCZAK, Z. 79
BLAZHKO, V. V. 5
BLETSKAN, D. I. 64
BLOK, A. S. 58
BLOKH, M. A. 94
BOBAK, W. 74
BOBITSKIY, YA. V. 91

BOBKOV, B. D. 79
BOBOVICH, YA. S. 38
BODOR, G. 79
BOGDANETS, A. D. 5,93
BOGDANKEVICH, O. V. 3
BOGDANOV, A. D. 97
BOGDANOV, V. A. 12
BOGDANOV, V. V. 79,80
BOGDANOV, YE. V. 47
BOGOLYUBOV, V. N. 28
BOGOMOLOV, K. S. 64,69
BOGORODSKIY, V. V. 58
BOKHAN, P. A. 21
BOLDYREV, S. A. 7,28
BOLONDAYEVA, N. I. 63
BOLOTOVSKIY, B. M. 42
BONCH-BRUYEVICH, A. M. 12,47,89
BONDAR', A. M. 92
BORIN, A. V. 70
BORISEVICH, N. A. 13
BORISOV, V. I. 7
BORISOVA, O. M. 89
BORISOVSKIY, S. P. 17
BORODULIN, V. I. 57
BOROVICH, B. L. 26
BOROVIK-ROMANOV, A. S. 33
BOROVKOVA, V. A. 75
BOROWICZ, L. 74
BORSHCH, A. A. 4
BORTKEVICH, A. V. 38
BORZA, D. N. 64
BORZENKO, V. L. 93
BOYKO, YU. I. 89
BRACHKOVSKAYA, N. B. 5
BREDE, O. 74
BREDIKHIN, V. I. 33,80
BRESLAV, YU. A. 66
BRIN'KO, V. F. 66
BRODIN, M. S. 4,91
BROUN, ZH. L. 64
BRUNIN, A. N. 20
BRYSKIN, V. Z. 64
BRYUKHANOV, V. V. 44
BUBEKOV, YU. I. 45
BUBNOV, M. M. 5
BUKATYY, V. I. 76
BUKHTOYAROVA, N. I. 79
BUNESS, G. 30
BURALEV, YU. M. 88
BURBULYAVICHYUS, L. I. 32
BURDONSKIY, I. N. 93
BURENKIN, A. M. 87
BURENKOV, V. I. 56
BURLAKOV, V. D. 21
BURMAKOV, A. P. 94
BURUNOV, YE. A. 97
BUSHUK, B. A. 8
BUTENIN, A. V. 89
BUTUSOV, M. M. 64
BUTYLKIN, V. S. 38
BUYNOV, G. N. 64
BYCHKOV, YU. I. 18
BYKH, A. I. 15
BYKHOVSKIY, V. K. 64
BYKOVSKIY, N. YE. 98
BYKOVSKIY, YU. A. 62,65,80,88,94

C

CHADYUK, V. A. 61
CHAGULOV, V. S. 58
CHAPLIK, A. V. 43
CHAPNIN, V. A. 4
CHAPOROV, D. P. 76
CHAPOVSKIY, P. L. 20
CHAYKA, M. P. 82
CHEBOTAREV, N. F. 25
CHEBOTAREVSKIY, YU. V. 90
CHEBOTAYEV, V. P. 7,78,80
CHECHIN, V. A. 20
CHEKALIN, N. V. 74
CHEKHLOV, V. I. 50
CHEPUR, D. V. 67
CHEREDNICHENKO, D. I. 93
CHEREMUKHIN, G. S. 30
CHERKASOV, A. D. 8
CHERKASOV, A. S. 76
CHERNENKO, A. A. 12,36
CHERNOV, V. P. 65
CHERNOYARSKIY, A. A. 83
CHERNYAK, V. M. 93
CHERNYSHEV, L. YE. 94
CHERNYSHEVA, A. A. 1
CHERNYSHEVA, YE. O. 40
CHERNYSHOVA, T. M. 12
CHERTOV, V. G. 53,85
CHIKOLINI, A. V. 5
CHINYAKOV, S. V. 16
CHIRKIN, A. S. 36,42,47,55
CHIRKOV, L. YE. 65
CHUCHIN, V. Z. 63,73
CHUDINOVA, N. N. 44
CHUMAK, E. I. 80
CHURAKOV, V. V. 22,24
CHURIN, A. A. 90
CHURSIN, V. N. 70,71
CZYZ, M. 58

D

DABAGYAN, A. A. 92
DAIS, P. 4
DANELYUS, R. 45
DANILEYKO, M. V. 23
DANILOV, N. K. 23
DANILOV, O. B. 80
DANILOV, V. V. 13
DANILYCHEV, V. A. 19,20,24
DARMANYAN, A. P. 74
DAS'KO, A. D. 9
DAVIDYUK, N. YU. 2
DAVYDOV, A. M. 65
DAVYDOV, A. YE. 80
DAVYDOV, S. V. 13
DAVYDOV, V. S. 31
DAVYDOVA, N. A. 91
DE, S. T. 80
DEGTYAREV, A. G. 20
DEGTYAREV, V. G. 80
DEKHTYAR, I. YA. 81
DELONE, G. A. 42,48
DELONE, N. B. 48
DEMBOVSKIY, S. A. 68
DEMCHENKO, A. M. 3
DEMIDOV, M. N. 30
DENISOV, L. K. 11
DENISOV, YU. V. 44
DENISOVA, V. V. 54
DENISYUK, YU. N. 65
DENKER, B. I. 6
DERNOVSKIY, P. V. 3
DERYUGIN, I. A. 65
DERYUGIN, L. N. 35
DEYGEN, M. F. 65
DIANOV-KLOKOV, V. I. 51
DIANOV, YE. M. 5
DIANOVA, V. A. 31
DIKAREV, O. N. 60
DIKCHYUS, G. 13,45
DMITRIYEV, A. K. 78
DMOWSKI, A. 25
DOBRAZANSKI, M. M. 48
DOKHIKYAN, R. G. 29
DOLEJS, V. 46
DOLGIKH, V. A. 20
DOLGINOV, L. M. 3,4
DOLGOV, N. M. 97
DOMONTOVICH, G. G. 71
DOMRIN, V. I. 38
DONCHENKO, V. A. 56
DONNERHACKE, K. H. 19
DONSKAYA, N. P. 94
DRABKIN, A. G. 98
DROBYSHEVSKAYA, N. N. 66
DROMASHKO, S. YE. 66

DRONOV, A. P. 22
DROZDOVA, L. A. 19
DRUZHININA, L. V. 3, 4
DUBETSKIY, B. YA. 42
DUBIK, A. 74
DUBNISHCHEV, YU. N. 81
DUBONOSOV, S. P. 98
DUBOVIK, A. S. 79
DUBOVIK, I. A. 78
DUDAREVA, L. G. 62
DUDOLADOV, A. G. 88
DUGIN, V. P. 52
DUGIN, V. S. 32
DUKHOPEL, I. I. 84
DYATLOV, M. K. 28
DYATLOV, V. K. 28
DYUBKO, S. F. 28
DZYUBENKO, M. I. 10, 15

E

EL'MAN, R. I. 98
EL'YASH, S. L. 3
ELENKRIG, B. B. 57
EMDIN, V. S. 58
ENGST, P. 20
EYMBKE, V. V. 83

F

FABELINSKIY, I. L. 40
FABRIKANT, V. A. 84
FADEYEV, V. V. 10, 35, 51
FAKHMI, A. O. 21
FANNIBO, A. K. 89
FARKASH, E. 8
FAYN, V. YA. 12
FAYNBERG, B. D. 13
FAYNBERG, YA. B. 20
FEDORCV, B. F. 98
FEDOROV, B. I. 54
FEDOROVA, V. K. 82
FEDOTOV, S. I. 98
FEDYANINA, M. I. 78
FEL'DBUSH, V. I. 61
FEL'DSHEROV, YE. M. 67
FESENKO, L. D. 28
FESENKO, T. N. 13
FILENKO, YU. I. 86
FILIPOV, F. 32
FILIPPOV, N. V. 94
FILIPPOV, YU. V. 76
FILIPPOVA, T. I. 94
FILLIPOVA, O. N. 61
FIRSOV, S. P. 90
FOKIN, YE. P. 14
FOKINA, I. A. 63
FOLOMKIN, I. P. 97
FOMICHEV, A. A. 57
FOMIN, N. A. 22
FOMIN, V. K. 95
FREYDMAN, G. I. 37
FRIDKIN, V. M. 72
FROLOV, D. M. 90
FUKS, N. A. 51
FURZIKOV, N. P. 74

G

GAFUROVA, N. S. 70
GALAKTIONOV, A. D. 6
GALKIN, V. I. 27
GALOCHKIN, V. T. 18, 74
GAMALIY, YE. G. 93
GAN, M. A. 66
GANIN, V. M. 61, 66
GANITS, F. V. 85
GAPONENKO, I. YE. 63, 66, 68, 69
GAPONENKO, N. I. 20
GAPONTSEV, V. P. 5
GARBUZOV, D. Z. 2, 3
GARSIA, M. A. 60
GASSAB, KH. 59
GAVRIKOV, V. F. 22
GAVRIKOV, V. K. 40
GAVRILOVICH, A. B. 56
GAVRONSKAYA, YE. A. 81
GAYDUK, M. I. 2
GAYGEROV, B. A. 81
GAYKO, O. L. 19
GAZUKO, I. V. 88
GELLER, YU. I. 48
GENDEL', YU. G. 93
GENKIN, V. N. 33, 80
GEORGIYEV, G. M. 19, 37
GEPTIN, A. P. 88
GERASIMOV, V. A. 21
GERKE, R. R. 72
GINEVICH, G. R. 6
GIRIN, O. P. 13
GIRINA, M. G. 71
GLADCHENKO, L. F. 9
GLADSKOY, V. M. 80
GNEDIN, I. N. 21
GODENKO, L. P. 4, 38
GODLEVSKIY, A. P. 52
GOFAYZEN, O. V. 66
GOL'DANSKIY, V. I. 46, 74
GOL'DIN, YU. A. 55
GOLOBORODKO, V. T. 81
GOLODENKO, N. N. 41
GOLUBEV, A. N. 58
GOLUBEVA, G. I. 30
GOLUBEVA, N. S. 6, 35, 48
GOMONOVA, A. I. 91
GONCHARENKO, A. M. 27
GONCHARENKO, K. V. 32
GORBATENKO, B. B. 65
GORBUNOV, L. M. 38
GORBUNOV, V. I. 63
GORDIYETS, B. F. 75
GORDON, YE. B. 27, 48
GORELIK, V. P. 79
GORIN, YU. N. 88
GOROBETS, A. P. 57
GOROKHOV, YU. A. 74
GORSHKOV, V. A. 8
GORSHKOV, V. V. 80
GORSHUNOV, N. M. 26
GORSKIY, S. M. 82
GORYACHEV, D. N. 97
GOTLIB, V. I. 78
GRACZYK, A. 30
GRAJA, A. 35
GRAMAKOV, A. A. 95
GRASYUK, A. Z. 38
GREKHOV, YU. N. 61
GRIBKOV, V. A. 94
GRIDIN, V. A. 62
GRIGOR'YANTS, V. V. 2, 47, 57
GRIGOR'YEV, V. I. 1
GRIGOR'YEVA, V. I. 15
GRIGOR'YEVA, V. N. 75
GRIN', YU. I. 22
GRINCHUK, V. A. 42
GRISHANIN, B. A. 46, 66
GRISHINA, N. V. 35
GRODNENSKIY, I. M. 34
GROMOV, V. V. 26
GROZNYY, A. V. 64, 81
GRUBIN, A. A. 5
GRUZ, E. A. 64, 69
GRUZINSKIY, V. V. 13, 38
GRYAZNOV, YU. M. 34
GUDAYEV, O. A. 63
GUDYALIS, V. 13
GUDZENKO, L. I. 24, 94, 98
GUETHER, R. 66
GULYAYEV, YU. V. 57
GURDZHIYAN, L. M. 13
GUREVICH, S. B. 66
GUREVICH, YE. B. 90
GUROV, S. A. 66
GURVICH, A. S. 56
GUS'KOV, L. N. 17

GUSEV, V. V. 7

H

HEISE, J. 36
HELMSTREIT, W. 74
HERRENDOERFER, G. 30
HEUMANN, E. 43
HOFMANN, C. 43

I

IBRAKHIMOV, N. 4
IGNAT'YEV, I. I. 6
IGNATAVICHYUS, M. 13
IGNATOV, A. I. 3
IKRYANNIKOV, V. I. 48
IL'IN, V. K. 82
IL'INSKIY, YU. A. 46,47
IL'YASHCHENKO, N. N. 66
ILBERG, V. 4
IM TKHEK-DE 37
IMANOV, F. M. 18
IMAS, YA. A. 89
INGARDEN, R.S. 48
IOFFE, A.I. 64
IONESCU-PALLAS, N. 99
IONIN, A.A. 19
ISAYEV, A.A. 9,21
ISAYEVA, O.I. 89
ISMAILOV, I.I. 3
IVAKIN, YE.V. 41,66
IVANOV, A.P. 56
IVANOV, E.I. 75
IVANOV, G.A. 57
IVANOV, L.I. 81,88
IVANOV, R.S. 24
IVANOV, V.P. 84
IVANOV, V.S. 11
IVANOV, YE.V. 54
IVANOVA, G.A. 62
IVANOVA, L.N. 88
IVANOVA, T.M. 68
IVASHNEVA, L.N. 79
IYEVSKIY, A.V. 57
IZOKH, V.V. 99
IZRAILENKO, A.N. 36
IZYNEYEV, A.A. 5

J

JANKIEWICZ, Z. 94
JANSON, R. 25

K

KABELKA, V. 45
KACZMAREK, F. 82
KADANER, G.I. 76
KAGAYN, V.E. 55
KALABUSHKIN, O.I. 16
KALACHEV, A.N. 20
KALACHEV, B.V. 7,11,22
KALINOVSKIY, V.L. 82
KALINTSEV, A.G. 2,86
KALISKI, S. 94
KALITEYEVSKAYA, YE.N. 10
KALITEYEVSKIY, N.I. 75,82
KALIYA, O.L. 13
KAMENOGRADSKIY, N.YE. 52,54
KAMRUKOV, A.S. 14
KAN, V. 56
KANAYEV, I.F. 89
KAPITANOV, V.A. 52
KAPLAN, A.YE. 43
KAPLUN, L.YA. 66
KAPORSKIY, L.N. 16
KAPRIELOV, B.K. 9
KARAPETYAN, G.O. 16
KARAPETYAN, S.S. 44
KARASIK, A.YA. 6
KARINSKIY, S.S. 29
KARLOV, N.V. 75,81
KARNAKOV, V.V. 82
KARNAUKH, T.N. 64
KARPINSKAS, S.CH. 32
KARPUSHKO, F.S. 8
KARYAGIN, S.V 47
KASATKIN, V.P. 16
KASHNIKOV, G.N. 76
KASPROWICZ-KIELICH, B. 35
KASYMOV, SH.S. 31
KATS, A.V. 40
KATSNEL'SON, B.G. 44
KAUL', B.V. 52
KAZAKOV, S.A. 90
KAZANTSEV, A.P. 47
KAZARIN, P.V. 85
KAZARYAN, M.A. 9,21
KAZARYAN, R.K. 47
KECHKEMETI, I. 8
KERIMOV, O.M. 19,20,24
KERNAZHITSKIY, L.A. 79
KESAMANL', F.P. 3
KETSLE, G.A. 44
KEZERASHVILI, G.YA. 83
KHADZHI, P.I. 5
KHALIMANOVICH, D.M. 45
KHANIN, YA.I. 99
KHANOV, V.A. 24
KHAPALYUK, A.P. 43
KHARCHENKO, A.A. 61
KHARCHENKO, V.N. 85
KHARITONOV, A.V. 67
KHASENOV, M.U. 19
KHATYREV, N.P. 83
KHAYRETDINOV, K.A. 3
KHAZOV, L.D. 2
KHE, V.I. 82,87
KHESIN, G.L. 82
KHIMINETS, V.V. 67
KHINRIKUS, KH.V. 31
KHIZHNYY, V.I. 95
KHODAKOV, G.S. 92
KHODAR, YE.F. 90
KHODOS, M.YA. 6
KHODOVOY, V.A. 47,82
KHOKHLOV, I.V. 50
KHOKHLOV, R.V. 47,74
KHOKHLOV, V.D. 95,96
KHOLODOV, V.I. 69
KHOTEYENKOV, V.A. 92
KHOTYNENKO, N.G. 68
KHROMOV, A.V. 77
KHROMOV, V.V. 47,82
KHRONOPULO, YU.G. 38,39
KHUDENSKIY, YU.K. 15
KIELICH, S. 35,43
KIKINESHI, A.A. 61,67,77
KILIN, S.YA. 91
KIR'YANOV, V.P. 86
KIRILLOV, G.A. 76
KIRILLOV, N.I. 63,67,69,99
KIRSANOVA, T.I. 34
KIRYUKHIN, YU.I. 75
KISELEV, D.F. 41
KISELEV, YU.M. 81
KISELEVA, T.I. 1
KISILITSA, P.P. 63,68
KISS, A. 42
KIYAK, S.G. 91
KLEMENT'YEV, F.M. 67
KLEMENTOV, A.D. 29
KLEPIKOVA, N.V. 4
KLESTOV-NADEYEV, A.M. 57
KLEVTSOV, P.V. 46
KLIMONTOVICH, YU.L. 75
KLOCHKOV, V.P. 12,84
KLUDZIN, V.V. 59
KLYKOVSKIY, O.V. 67
KLYUCHNIKOV, A.S. 99
KLYUCHNIKOV, V.M. 83
KLYUKACH, I.L. 8
KLYUKIN, L.M. 83
KLYUKVIN, A.B. 88

KMENT, V. 46
KNYAZEV, B.A. 14,86
KNYAZEV, I.N. 18
KOBZEV, V.V. 18
KOCHANOV, V.P. 17
KOCHEV, K.D. 72
KOCHUBEY, S.A. 20
KOCHUBEY, S.S. 45
KODYLEV, A.M. 27,30
KOGAN, B.YA. 89
KOKIN, V.N. 8
KOKODIY, N.G. 41
KOKSHAROV, M.A. 86
KOKURIN, YU.L. 58
KOLCHINA, G.A. 76
KOLESNIKOV, V.N. 95
KOLESNIKOV, YU.A. 5
KOLGANOV, V.A. 28
KOLODZIEJCZAK, J. 43
KOLOGRIVOV, A.A. 94
KOLOMEYEV, M.P. 54
KOLOMIYETS, A.D. 61
KOLOMIYETS, B.T. 61,66
KOLOMIYETS, S.M. 52
KOLOMNIKOV, YU.D. 27
KOLOSOV, V.A. 75
KOLOVSKIY, V.B. 10
KOMAR, V.G. 62,67,71
KOMAROVA, A.A. 50
KOMOLOV, V.L. 89
KOMOLOVA, L.F. 90
KONDILENKO, I.I. 38,39
KONDRAT'YEV, V.A. 75
KONEV, YU.B. 24
KONNIKOV, S.G. 33
KONONENKO, I.I. 69
KONSTANTINOV, B.A. 11
KOPEC, J. 31
KOPELEVICH, O.V. 56
KOPINETS, I.F. 64
KOPVILLEM, U.KH. 97
KOPYLOV, YU.L. 5
KORBUKOV, G.YE. 58
KORMER, S.B. 76
KORNEYEV, A.V. 21
KORNIYENKO, L.S. 1
KORNIYENKO, N.YE. 35
KOROBKIN, V.V. 34
KOROCHKIN, L.S. 29
KOROL'KOV, V.I. 31
KOROLENKO, P.V. 17
KOROLEV, F.A. 21
KOROLEV, V.A. 72
KOROSTELEV, V.A. 48
KOROTEYEV, N.I. 39,78
KOROTKOV, P.A. 39
KORSAKOV, V.V. 67
KORSHUNOV, A.V. 58
KORTOV, V.S. 92
KOSIKHIN, YE.S. 11
KOSINOV, V.N. 18
KOSMA, B. 18
KOSTKO, O.K. 60
KOSTOMETOV, G.P. 49
KOSTYSHIN, M.T. 68
KOSTYUKEVICH, YE.A. 95
KOTENKO, V.P. 68
KOTLIKOVA, T.N. 80
KOTLYAR, P.YE. 61
KOTOMTSEVA, L.A. 11
KOTOV, A.V. 38
KOTYUK, A.F. 83
KOVAL', G.I. 72
KOVAL'SKIY, N.G. 93
KOVALENKO, V.A. 3
KOVALENKO, V.F. 46
KOVALENKO, YE.S. 2,76
KOVALEVA, L.A. 12
KOVSH, I.B. 19,24
KOWALCZYK, L. 43
KOZACHOK, A.G. 80,83
KOZENKOV, V.M. 62,63,66,68
KOZEYEVA, L.P. 46
KOZHENKOV, V.I. 51
KOZIKOWSKA, A. 30
KOZIKOWSKI, S. 68
KOZLENKOV, V.P. 88
KOZLOV, M. YU. 83
KOZLOV, N.P. 14
KOZLOVSKIY, D.A. 76
KOZMA, L. 8
KOZUBOVSKIY, V.R. 23
KOZYAYEV, YE.F. 41
KOZYREV, D.A. 17
KRAKAU, YU.A. 70
KRASAVIN, V.N. 11
KRASILOV, YU.I. 44
KRASNOV, E.A. 11
KRASYUK, I.K. 33
KRASYUKOV, V.P. 90
KRAT'KO, L.YE. 93
KRAVCHENKO, V.B. 5
KRAVCHENKO, V.I. 6,14
KRAVTSOV, N.V. 1,2
KREYNES, N.M. 33
KRINITSYNA, L.F. 6,48
KRISTANSON, YA.ZH. 70
KROCHIK, G.M. 39
KROKHIN, O.N. 93,94,95,96
KROMSKIY, G.I. 22
KROPOTKIN, M.A. 58
KROTOVA, Z.V. 82
KRUGLOVA, N.N. 82
KRUPA, N.N. 4
KRUPITSKIY, E.I. 58
KRYLOV, K.I. 86
KRYUCHENKOV, V.B. 95
KRYUKOVA, I.V. 3,4
KSENZENKO, V.I. 75
KUCHEROV, V.S. 21
KUCZYNSKI, W. 36
KUDRYASHOV, V.P. 18
KUGUSHEV, A.M. 95
KUHNE, G. 73
KUKHMISTROV, V.S. 59
KUKOBA, A.V. 15
KUL'BITSKAYA, M.N. 40
KULAKOV, S.V. 41,59
KULIKOVA, L.B. 1
KULIKOVSKIY, N.G. 29
KULYUK, L.L. 37,38,39
KUNIN, YU.L. 26
KUPRENYUK, V.I. 77,78
KURASBEDIANI, A.I. 14
KURASHOV, V.N. 65
KURATOV, YU.V. 76
KURBASOV, V.V. 58
KURBATOV, YU.A. 18
KURDYUMOV, S.P. 93
KURENEV, YU.P. 33
KURILO, N.I. 99
KURITSYN, B.A. 41
KUSCH, S. 66
KUTAYEVA, G.S. 82,87
KUTOLIN, S.A. 68
KUTSENKO, YA.P. 41
KUVSHINSKIY, N.G. 68
KUZ'MIN, G.P. 81
KUZ'MIN, V.A. 11,74
KUZ'MINA, N.P. 90
KUZ'MINOV, YU.S. 6
KUZILIN, YU.YE. 66
KUZNETSOV, A.A. 59
KUZNETSOV, G.M. 34,83
KUZNETSOVA, N.A. 8
KVAPIL, J. 46
KVAPIL, JOS. 46
KVASNIKOV, YE.D. 68

L

LAGUTIN, M.F. 14
LAPTEV, I.D. 80
LAPTINSKAYA, T.V. 37
LARINA, R.R. 88
LARIONOV, V.R. 2

LARIONTSEV, YE.G. 45,57
LARKIN, A.I. 62,65
LARSHIN, A.S. 30
LASTOWIECKI, J. 25
LATUSH, YE.L. 21
LAU, A. 39
LAVRINOVICH, B.M. 59
LAVROV, A.V. 2
LAVROVSKIY, L.A. 14,33
LAZAREVA, N.L. 83
LAZARUK, A.M. 41
LEBEDENKO, V.P. 48
LEBEDEV, O.L. 13
LEBEDEV, V.I. 7
LEBEDEVA, YE.L. 32
LEMANOV, V.V. 59
LEMESH, N.I. 19
LENCZEWSKA, K. 48
LENZ, K. 39
LEONOV, A.M. 33
LEONOV, R.K. 83,87
LEONOV, V.P. 15
LEONT'YEV, P.A. 88
LESKOVICH, V.I. 4
LETOKHOV, V.S. 14,18,74
LEVANOV, YE.I. 93
LEVIN, G.I. 77
LEVIN, M.B. 8
LEVIN, V.A. 85
LEVKOYEV, I.I. 11
LEVOKEV, I.I. 11
LEVSHIN, L.V. 44
LINNIK, L.A. 50
LINNIK, L.F. 32
LIPKIN, A.S. 84
LISIN, O.G. 85
LISITSYN, V.N. 20
LISTVIN, V.N. 57
LITOVCHENKO, N.M. 32
LITOVCHENKO, V.G. 91
LITVINOVA, N.A. 88
LOBANOV, A.N. 20
LOBKO, V.V. 18,36
LOBKOVA, L.M. 52
LOBOV, G.D. 33
LOGINOV, A.V. 80
LOKHOV, YU.N. 30
LOMAKIN, V.N. 1
LOMONOSOV, V.V. 92
LOSEV, S.A. 22
LOSKUTOV, V.F. 87
LOVKOV, S.YA. 84
LOYKO, M.M. 50
LOYKO, N.A. 45
LUGOVOY, V.N. 49
LUK'YANOV, D.P. 33
LUK'YANOV, G.A. 24
LUK'YANOV, S.YU. 99
LUKISHOVA, S.G. 33
LUKOMSKIU, G.V. 7
LUKONIN, I.P. 18
LUNIN, V.M. 20
LUNTER, S.G. 5
LUTOSHKIN, V.I. 61
LYAKHOV, G.A. 47
LYAKHOVSKAYA, L.V. 73
LYKOV, V.A. 95
LYUBARSKIY, M.G. 96
LYUBIMOV, YE.M. 63,67
LYUBIN, V.M. 61,66
LYUBOV, B.YA. 92

M

MACHOWSKI, T. 22
MAGDA, I.I. 20
MAK, A.A. 29,95
MAKARETSKIY, YE.A. 29
MAKAREVICH, A.N. 19
MAKAROV, A.A. 74
MAKAROV, G.N. 74
MAKAROV, V.N. 11,22,29
MAKAROV, V.V. 6
MAKAROV, YU.A. 55
MAKAROVA, L.T. 10
MAKAYEV, B.S. 7,12
MAKHOTKINA, YE.L. 53
MAKHVILADZE, T.M. 39,99,100
MAKKAVEYEV, V.I. 98
MAKOGON, M.M. 27
MAKSIMENKO, N.V. 42
MAKSIMOV, A.I. 9
MAKSIMOVA, G.V. 6
MAKSIMYUK, V.S. 52
MAKUSHENKO, A.M. 12
MAKUSHENKO, YU.M. 31
MAL'TSEVA, N.I. 15
MALASHCHENKO, V.A. 14
MALEYEV, D.I. 38,39
MALINOVSKIY, V.K. 89
MALYKH, L.YA. 95
MALYKH, N.I. 95
MALYSHEV, G.M. 97
MALYUTENKO, V.K. 32
MALYY, V.I. 38
MALZ, D. 36
MAMONOV, V.K. 54
MANAKOV, N.L. 48,49
MANDEL', A.YE. 2
MANDZHIKOV, V.F. 44
MANVELYAN, M.G. 44
MARCHENKO, V.S. 24
MARGARYAN, A.A. 44
MARICHEV, V.N. 53
MARKELOV, V.A. 23
MARKIN, YE.P. 26
MARKOV, V.B. 65,68
MARKOV, YU.V. 32
MARKOVA, S.V. 21
MARKOVA, T.F. 50
MARONCHUK, I.YE. 46
MARSHAK, YU.I. 82
MARTYNOV, V.V. 21
MARTYNYUK, M.M. 88
MARYSHEV, YU.A. 50
MASHKEVICH, V.S. 4,5,38
MASHTAKOV, YU.L. 56
MASLENKOVA, N.G. 69
MASLOV, V.V. 10
MASLYUKOV, YU.S. 7
MATKOVA, I.I. 33
MATSKEVICH, V.K. 49
MATVEYETS, YU.A. 36
MATVEYEV, I.N. 1,32
MATVEYEV, O.M. 52,54
MATYUSHIN, G.A. 12
MAZURENKO, YU.T. 13
MEDVEDEV, YU.A. 96
MEDVID', A.P. 32
MEDZHITOV, R.D. 41
MEHNERT, R. 74
MEISEL, E. 75
MELISHCHUK, M.V. 10
MERKULOV, I.A. 14
MESHCHERYAKOV, G.A. 53
MESHKAUSKAS, A.YE. 32
MEZHEVOV, V.S. 18
MIGOLINETS, I.M. 64
MIGULIN, A.V. 54
MIHAILESCU, I.N. 88,92
MIKHAYLOV, I.A. 71
MIKHAYLOV, S.I. 38,39
MIKHAYLOVA, V.I. 70
MIKHAYLOVSKIY, A.G. 19,37
MIKHEYEV, L.D. 20
MIKHEYEVA, V.P. 70
MIKHNOV, S.A. 29
MIL'VIDSKIY, M.G. 4
MILINKEVICH, A.V. 33,34,45
MINAYEV, A.N. 19
MINDEL', A.V. 66
MIRETSKIY, B.P. 30
MIRKIN, L.I. 88,89
MIROLYUBOV, R.K. 57
MIRONOV, A.B. 39
MIRONOV, S.A. 60
MIRONOV, V.KH. 6
MIRUMYANTS, S.O. 15,52
MIS'NIK, V.A. 32
MISHCHENKO, N.I. 76

MISHIN, V.I. 74
MISHKINIS, YU.YU. 32
MIT'KOVETS, N.N. 59
MITIN, A.V. 47
MITROPOL'SKIY, M.M. 92
MITSEL', A.A. 55
MIZERACZYK, J.K. 21,77
MIZEROV, M.N. 4
MOCHALOV, A.V. 83
MOGIL'NITSKIY, B.S. 27
MOISEYENKO, YE.G. 66
MOKRITSKIY, V.A. 46
MOLCHANOV, A.G. 4
MOLDAVSKAYA, V.M. 32
MOLEV, A.I. 29
MOLNAR, M. 8
MORGUN, YU.F. 14,33
MOROKHOVSKAYA, I.I. 88
MOROZOV, B.A. 85
MOROZOV, N.A. 61
MOSICHEV, V.I. 16
MOSKALENKO, S.A. 5
MOSKALENKO, V.F. 20,21,27,30
MOSKVIN, YU.L. 27,48
MOSPANOV, V.S. 39
MOSTOVNIKOV, V.A. 50
MOTKIN, V.S. 11,35
MOVSESYAN, M.YE. 92
MOVSESYAN, R.A. 59
MRAZ, P. 15,20
MUKHAMEDGALIYEVA, A.F. 92
MULENKO, S.A. 14
MUNTYAN, K.I. 77
MURAV'YEV, V.N. 88
MURAVITSKIY, M.A. 14,33
MURIN, V.A. 44
MURO, E.L. 54
MURUGOV, V.M. 31
MUSZYNSKI, Z. 4
MYL'NIKOV, G.D. 37
MYL'NIKOV, V.S. 61
MYNBAYEV, D.K. 79,82
MYSHALOV, P.I. 35

N

NABOYKIN, YU.V. 15,22
NABYTNOV, V.A. 68
NADEZHDA, B.P. 88
NAGAYEVA, M.L. 42
NAGORNYY, A.G. 95
NAKWASKI, W. 4
NALIVAYKO, V.I. 67
NAMIOT, V.A. 46,74
NAROVLYANSKAYA, N.M. 45
NASIBOV, A.S. 4
NASYROV, A.M. 56
NAUGOL'NYKH, K.A. 41
NAZAROV, V.I. 69
NAZAROVA, L.G. 71
NEDAVNIY, A.P. 23
NEGRIYKO, A.M. 23
NEKURYASHCHEV, V.N. 68
NEMTINOV, V.B. 69
NEPORENT, B.S. 7,8
NERUSHEV, A.F. 51,53,56
NESHCHIMENKO, YU.A. 26
NESTEREKHIN, YU.YE. 89,100
NESTRIZHENKO, YU.A. 15
NEVOLIN, V.N. 80
NEZHEVENKO, YE.S. 61
NEZHIKHOVSKIY, B.R. 80
NIKIFOROVA, N.K. 52
NIKITCHENKO, V.M. 10
NIKITIN, A.I. 26
NIKITIN, V.G. 31
NIKOGOSYAN, D.N. 36
NIKOLAYEV, S.N. 79
NIKOLAYEV, V.B. 26
NIKOLAYEV, V.P. 52
NIKOLAYEVSKIY, V.G. 93
NIKONYUK, YE.S. 91
NISHCHENETS, V.N. 61
NISHCHENKO, M.M. 81
NIZOVTSEV, A.P. 47
NOVIK, F.S. 29
NOVIK, G.M. 94
NOVIKOV, I.A. 69
NOVIKOV, M.A. 27
NOVIKOV, V.V. 82
NOVOBRANTSEV, I.V. 18
NOWICKI, M. 93
NOZHNITSKIY, YU.A. 84

O

OBIDIN, A.Z. 4
OCHAKOVSKIY, YU.YE. 56
ODINTSOV, V.I. 21
ODULOV, S.G. 65,68
OGURTSOVA, L.A. 15,22
OL'VOVSKAYA, M.B. 60
ORAYEVSKIY, A.N. 26,74,75
OREL, V.I. 46
ORLANOV, V.I. 84
ORLETSKIY, V.B. 91
ORLOV, B.V. 24
ORLOV, K.P. 88
ORLOV, R.YU. 8
ORLOV, V.K. 20,22
ORLOVICH, V.A. 37
ORLOVSKIY, V.M. 18
ORZEGOWSKI, H. 24,27
OSIKO, V.V. 2,6
OSIPOV, A.I. 75
OSIPOV, V.V. 18
OSTAPCHENKO, YE.P. 17,27,28,30
OSTROVSKAYA, G.V. 73
OSTROVSKIY, YU.I. 73,84
OVANDER, L.N. 43
OVCHINNIKOV, A.A. 18,51
OVCHINNIKOV, V.G. 42
OVECHKIN, A.P. 84
OVEZOV, K. 32
OVSYANNIKOV, V.D. 49
OZERENSKIY, A.P. 53
OZOLS, A.O. 70,78

P

PAKHALOV, V.B. 47,55
PAKHLAVUNI, R.K. 18
PAL'TSEV, L.A. 24
PAL'YANOV, P.A. 56
PALTARAK, N.M. 38
PAN'SHIN, I.A. 65
PANCHENKO, I.P. 96
PANCHENKO, V.YA. 75
PANFILOV, B.V. 84
PANKOV, A.A. 33
PANKRATOV, A.A. 63
PANKRATOV, A.V. 26,75
PAPOYAN, S.M. 69
PAPYAN, V.A. 59
PARCHEVSKAYA, T.A. 87
PARINSKIY, A.YA. 29
PARITSKIY, L.G. 31,97
PARYGIN, V.N. 31,34,59,73
PASHININ, P.P. 2,5,33,93
PASMANIK, G.A. 35
PASTERNAK, L.B. 1
PAVLIK, B.D. 14,23
PAVLOV, V.A. 81
PAVLOVA, L.N. 52
PAVLOVA, YE.I. 59
PAVLOVSKAYA, N.G. 3
PAVLOVSKIY, A.I. 7,12
PECHENOV, A.N. 4
PECHORIN, V.T. 51,54
PECHURINA, S.V. 20
PELEVIN, V.N. 55
PEN, YE.F. 67
PENCHEV, I.I. 44
PENIN, A.N. 19,37

PEREL'MAN, M.YE. 58
PEREVERZEVA, G.M. 29
PEREVOZCHIKOV, N.F. 44
PERGAMENT, M.I. 5, 93
PERLOV, D.I. 92
PERNER, B. 46
PERSHIN, S.M. 37
PERSHIN, V.V. 32
PESCHEL, C. 24, 27
PETNIKOV, A.YE. 71
PETRASH, G.G. 9, 21
PETRENKO, A.D. 43
PETRENKO, A.S. 69
PETRETIS, B. 72
PETROSYAN, K.B. 42
PETROV, V.A. 95
PETROV, V.D. 64, 69
PETROVICH, I.P. 41, 66
PETRUSHIN, A.G. 53
PETRYAKOV, V.N. 37
PETUKHOV, P.A. 34
PFEIFFER, M. 39
PIEKARA, A.H. 57
PIETRZAK, A. 25
PIGULEVSKIY, YE.D. 67
PIKEL'NI, V.F. 75
PIKULIK, L.G. 9
PILIPETSKIY, N.F. 90
PIMENOV, V.P. 25, 75
PINCHUK, S.D. 84
PIONTKOVSKAYA, I.A. 85
PIS'MENNYY, V.D. 21
PISKARSKAS, A. 13, 45
PISKUNOV, A.K. 22, 26
PIVOVAR, V.A. 19
PLESHANOV, YU.V. 57
PLETNEV, N.V. 98
PLETNEV, S.D. 50
PLIS, A.I. 42
PLOSHAY, L.L. 53
PLUTA, M. 84
PLYATSKO, G.V. 91
PODAVALOVA, O.P. 37
PODGORNAYA, L.M. 15
PODGORNYY, A.P. 15, 22
PODGORNYY, V.I. 59
PODOL'SKAYA, L.S. 10
PODPALYY, YE.A. 65
PODVOLOTSKIY, V.S. 11
POGOREL''SKIY, I.V. 20
POGORETSKIY, P.P. 64
POGORSKIY, S.N. 86
POKROVSKAYA, F.S. 15, 22
POLYAKOV, B.I. 10
PON'KIN, V.A. 69
PONOMAREV, P.D. 67
PONOMAREV, V.G. 93
PONOMAREV, YU.V. 91
POPESCU, I.M. 88, 92
POPOV, A.K. 37, 48
POPOV, P.I. 89
POPOV, V.I. 6, 84
POPOV, YU.M. 4
POPOVA, M.N. 86
POPOVICH, M.P. 76
POROSHIN, N.D. 31
PORTNOY, YE.L. 4
PORTNYAGIN, A.I. 90
POSPELOVA, N.V. 66
POTAPOV, A.N. 63
POTAPOV, B.P. 56
POTAPOV, V.T. 57
POYUROVSKAYA, I.YE. 96
POZHAR, V.V. 15
PREOBRAZHENSKIY, M.A. 48
PRESNYAKOV, YU.P. 70
PRICHKO, YU.V. 1
PRILEPIN, M.T. 58
PROKHORENKO, N.YA. 100
PROKHOROV, A.M. 5, 6, 33, 75, 81, 93
PROTAS, I.R. 70
PROTASOV, YU.S. 14
PRZHEVUSKIY, A.K. 5
PRZHIBEL'SKIY, S.G. 47
PSHENICHNIKOV, S.M. 32
PSHENICHNIKOV, V.I. 20
PSHEZHETSKIY, S.YA. 25
PUCHALSKI, S. 30
PUGOVKIN, A.V. 2
PURETSKIY, A.A. 74
PUSHKAREV, S.S. 20

R

RAABEN, E.L. 5
RADZIYEVSKIY, V.G. 69
RAKHVALOV, V.V. 28
RAKUSHIN, YU.A. 83
RAL'CHENKO, V.I. 2
RAMAZASHVILI, R.R. 38
RAPOPORT, L.P. 48, 49
RAUTIAN, S.G. 17, 49
RAYKHINA, R.D. 11
RAZDOBARIN, G.T. 97
RAZUMOVA, T.K. 10, 12
REMESNIK, V.G. 67
REPIN, V.I. 8
RESHETNYAK, S.A. 49
REVONCHENKOV, A.M. 63
RINKEVICHYUS, B.S. 84, 85
RIVLIN, A.A. 33
RODIONOV, V.YE. 32
ROGULIN, V.YU. 4
ROMANENKO, P.F. 68
ROMANOV, V.P. 40
ROMANOVA, L.M. 53
ROMISHEVSKIY, YE.A. 24
ROVINSKAYA, YU.I. 70
ROZANOV, I.A. 44
ROZANOV, N.N. 40, 49, 57
ROZANOV, V.B. 29, 93
ROZHDESTVIN, V.N. 35, 48
ROZHITSKIY, N.N. 14, 15
ROZHKOV, O.V. 70
ROZHNOV, V.P. 30
RUBANOV, A.S. 41, 66
RUBINOV, A.N. 9, 50
RUBINSHTEYN, B.I. 77
RUBLEVA, N.I. 28
RUD', YU.V. 32
RUDNITSKIY, YU.P. 5
RUKMAN, G.I. 77, 82
RULA, V.M. 69
RUMYANTSEV, V.D. 3
RUPASOV, A.A. 94
RUSETSKIY, A.M. 11
RYABOV, A.N. 1
RYABOV, YE.A. 74
RYABOVA, R.V. 70
RYAZANTSEV, G.V. 59
RYBAKOV, S.YU. 54
RYKALIN, N.N. 81
RYKOV, A.A. 13
RYSAKOV, V.M. 43
RYVKIN, B.S. 4
RYVKIN, S.M. 32
RYZHECHKIN, S.A. 14
RYZHKOV, A.I. 35

S

SAFRONOV, G.S. 69
SAFRONOVA, A.P. 85
SAGARIN, V.A. 64
SAL'KOVA, YE.N. 64
SAMARTSEV, V.V. 85
SAMOKHIN, A.A. 89
SAMOKHVALOV, I.V. 52, 55
SAMOYLOV, V.D. 57
SAMSON, A.M. 33, 34, 45
SAPOZHNIKOV, A.I. 54
SAPRYKIN, E.G. 17
SARDYKO, V.I. 23
SARKAROV, N.E. 17
SARYCHEV, M.V. 100

SARYCHEV, M.YE. 39, 99, 100
SASIN, A.L. 89
SATTAROV, F.A. 64
SAVELOVA, V.K. 34
SAVENOK, A. 31
SAVIN, V.V. 18
SAVIN, YU.V. 76
SAVITSKIY, V.K. 2
SAVVA, V.A. 33, 34, 45
SAZONOVA, L.V. 85
SCHREIBER, W. 73
SCHWARZ, P. 30
SEDOV, G.S. 30
SEGEN', V.M. 28
SELEZNEV, V.G. 84
SELEZNEVA, L.F. 93
SELITSKAYA, T.S. 71
SEM, M.F. 21
SEMAK, D.G. 61, 67, 72
SEMENOV, L.P. 53, 54
56, 100
SEMENOV, V.V. 97
SENATSKIY, YU.V. 98
SENCHENKOV, YE.I. 67
SERDYUKOV, A.N. 42
SEREBRYAKOV, V.A. 85
SERGEYEV, M.A. 83
SERGEYEV, V.V. 78
SERKIN, V.N. 45, 57
SEROV, O.B. 62, 69, 70, 71
SEVAST'YANOV, B.K. 1
SHABARSHIN, V.M. 75
SHABLIY, I.YU. 91
SHADEYEV, N.I. 61
SHAKHLAY, I.P. 29
SHAKIRZYANOV, F.I. 28
SHALAGIN, A.M. 17, 49
SHALDIN, YU.V. 43
SHALYAYEV, M.F. 38
SHAMAYEVA, G.G. 50
SHAMSHIN, R.YE. 34
SHANGINA, L.I. 76
SHANINA, B.D. 65
SHAPIRO, V.D. 96
SHAPOSHNIKOV, YU.N. 87
SHAPOVALOV, D.S. 26
SHARKOV, B.YU. 94
SHARLAY, S.F. 86
SHAVRUKOV, YU.M. 58
SHCHEGLOV, V.A. 25, 75
SHCHELCHKOV, G.I. 51
SHCHERBAKOV, A.A. 29
SHCHERBAKOV, I.A. 2, 6
SHCHITOV, N.N. 41
SHCHUKIN, I.I. 70
SHELAYEV, A.N. 2
SHELOPUT, T.A. 81
SHER, YE.S. 60
SHEREMET'YEV, YU.N. 31
SHERESHEV, A.B. 53
SHEROZIYA, G.A. 94
SHERSTOBITOV, V.YE. 77, 78
SHEVANDIN, V.S. 7
SHEVCHENKO, P.P. 60
SHEVCHENKO, V.I. 96
SHEVCHUK, P.M. 60
SHEVELEVA, T.YU. 58
SHEYBUT, YU.YE. 97
SHIBARSHOV, L.I. 95
SHIFRIN, K.S. 56
SHIFRIN, V.P. 92
SHIKANOV, A.S. 78, 94, 95, 96
SHILO, V.P. 66
SHILOV, V.B. 7, 15
SHIPILOV, B.A. 11
SHIPULO, G.P. 6
SHIRKOV, A.V. 33
SHIROKOV, V.I. 8
SHISHAYEV, A.V. 7, 12, 78, 85
SHKOBA, T.I. 64
SHKOLYAR, I.SH. 6
SHLYKOVA, S.P. 17
SHOKHUDZHAYEV, N. 3
SHPAK, M.T. 23
SHTAN'KO, A.YE. 72
SHTIN, A.P. 6
SHTYKOV, V.V. 33
SHUL'MAN, YE.S. 81
SHUMSKAYA, L.I. 18, 95
SHURMAN, V.L. 68
SHUTILOV, V.A. 40
SHUVALOV, S.M. 94
SHVARTS, K.K. 70
SHVEYKIN, V.I. 57
SHVOM, YE.M. 55
SIBIREV, A.V. 30
SICHKA, M.YU. 64
SIDORIN, YU.V. 90
SIDOROVICH, V.G. 64, 71
SIDOROVICH, V.P. 99
SIGOV, YU.S. 96
SIKORA, S.V. 85
SIL'NITSKIY, A.F. 11
SIL'NOV, S.M. 94
SIL'VANOVICH, A.YE. 86
SILIN, S.M. 61
SILIN, V.P. 40
SIMONOV, A.P. 10, 35, 51
SINITSYN, G.V. 8
SINYAK, V.A. 5
SINYAVSKIY, E.P. 91
SINYUTA, S.A. 16
SKACHEK, G.V. 20
SKIBARKO, A.P. 41
SKLIZKOV, G.V. 94, 95, 96
SKLYAROV, M.YU. 90
SKLYAROV, O.K. 59
SKOBELEV, I.YU. 25
SKORIKOV, V.M. 34
SKORUPSKI, A.A. 25
SKRIPKIN, A.M. 51, 54, 84
SKUYBIN, B.G. 1
SKVORTSOV, M.N. 78
SLAVNOV, S.G. 77
SLAVNOVA, T.D. 44
SLOBODYAN, S.M. 76
SLOMINSKIY, YU.L. 13
SMAKOVSKIY, YU.B. 18
SMIRNITSKIY, V.B. 4
SMIRNOV, A.A. 14
SMIRNOV, V.A. 57
SMIRNOV, V.G. 38
VMIRNOV, V.I. 84
SMIRNOV, V.S. 8, 17
SMIRNOV, YE.A. 19
SMIRNOVA, A.D. 94
SMIRNOVA, L.D. 77
SMISEK, V. 46
SMOLENSKIY, G.A. 60
SMORCHKOVA, S.A. 30
SMULAKOVSKIY, V.M. 85
SMYSLOV, YE.F. 89
SNAGOSHCHENKO, L.P. 15
SNYKOV, V.P. 53, 54
SOBCZYNSKA, J. 30
SOBOL', E.N. 92
SOBOLENKO, D.N. 37
SOBOLEV, G.A. 62, 69, 70, 71
SOBOLEV, N.N. 18
SOBOLEV, V.S. 81
SOCHOR, V. 15, 20, 45
SOKOL, A.N. 51
SOKOLOV, A.V. 57
SOKOLOV, N.I. 68
SOKOLOVSKIY, R.I. 8, 55
SOKOVIKOV, V.V. 97
SOLODKIN, YU.N. 80, 83
SOLOGUB, V.P. 17
SOLOMAKHA, D.A. 77
SOLOMONOV, V.I. 21
SOLOMONOV, YU.F. 44
SOLOUKHIN, R.I. 22
SOLOV'YEV, M.V. 23
SOLOV'YEV, V.S. 33, 77
SOLOV'YEVA, V.G. 93
SONIN, A.S. 34
SOONURM, T.E. 31
SOPIN, A.I. 7, 11
SOPINA, N.P. 32
SOROKA, V.V. 41

SOROKIN, V.N. 51
SOSKIN, M.S. 14,65,68
SOSNIN, A.V. 53
SOSNIN, V.P. 57
SOTIN, V.YE. 35
SOUSTOV, L.V. 33,80
SOZINOV, B.L. 6,35,48
SPIKHAL'SKIY, A.A. 60
SPIRO, A.G. 7,15
SPORNIK, N.M. 73
SRESELI, O.M. 97
STABINIS, A. 45
STANKEVICH, T.F. 65
STARIKOV, A.D. 95
STAROBOGATOV, I.O. 12
STARODUB, A.N. 40
STARODUBTSEV, N.F. 74
STAROSTIN, A.N. 18
STARTSEV, A.V. 20
STASEL'KO, D.I. 64,76,81
STAVROVSKIY, D.B. 20
STEFANOV, V.I. 34
STEFANOV, V.Y. 9
STEL'MAKH, M.F. 57
STEPANOV, A.I. 9,13
STEPANOV, A.N. 1
STEPANOV, B.I. 22,41
STEPANOV, B.M. 3,77,87
STEPANOV, V.A. 28
STEPANOV, V.V. 77
STEPANOV, YU.A. 44
STEPANOVA, B.M. 79
STERT, V. 75
STINSER, E.P. 60
STOLOV, A.M. 5
STOLPOVSKIY, A.A. 81
STOLYAROV, S.N. 42
STOYANOV, A.K. 63
STOYLOV, YU.YU. 16
STRATSKEVICH, L.K. 13
STREL'TSOV, A.P. 18
STREL'TSOV, V.N. 49
STRIGUN, V.L. 76,81
STRIZHEVSKIY, V.L. 35,85
STRIZHNEV, V.S. 49
STROGANOV, V.I. 36
STROKOVSKIY, G.A. 23
STRUNKIN, V.A. 12
STURMAN, B.I. 89
STYROV, V.V. 27
SUBASHIYEV, V.K. 44
SUCHKOV, A.F. 19
SUCKEWER, S. 25
SUKACH, G.A. 91
SUKHANOV, L.V. 7,12
SUKHANOV, V.B. 27
SUKHANOV, V.I. 62,71,73
SUKHANOVSKIY, A.N. 58
SUKHAREV, B.V. 59
SUKHAREV, M.V. 66
SUKHAREV, S.A. 76
SUKHAREV, YE.M. 5,93
SUKHMAN, YE.P. 71
SUKHORUKOV, A.P. 90
SULOVSKY, J. 46
SUPLAKOV, A.A. 84
SUPRONOWICZ, H. 25
SURAMLISHVILI, G.I. 40
SURDUTOVICH, G.I. 47
SUSHCHINSKIY, M.M. 39
SUSHIK, M.M. 37
SVERDLOV, B.N. 4
SVETOGOROV, D.YE. 54
SVICH, V.A. 28
SVIRIDOV, A.G. 18
SVIRIDOV, A.N. 19
SVIRIDOV, K.N. 56
SVIRKUNOV, P.N. 57
SYCHUGOV, A.A. 60
SYCHUGOV, V.A. 6
SZYMANSKI, M. 77

T

TABARIN, V.A. 54
TAGIYEV, Z.A. 36
TAL'ROZE, V.L. 27
TANIN, L.V. 14
TARANENKO, V.B. 14
TARASOV, N.A. 80
TARASOV, R.P. 60
TARASOV, YE.N. 75
TARKHOV, G.N. 90
TARTAKOVSKIY, G.KH. 37
TATARINOV, V.V. 17
TAURIN, N.F. 83,87
TELEGIN, L.S. 8
TELESHEVSKIY, V.I. 62
TEODORESCU, I.A. 88,92
TEODORESCU, V.S. 88
TERENT'YEV, V.YE. 80
TERTYSHNIK, A.D. 27
TESELKIN, V.V. 17,25
TESTOV, V.G. 22
THIEDE, G. 24,27
TIGANOV, YE.V. 17
TIKHOMIROV, S.A. 45
TIKHOMIROV, S.V. 83
TIKHONOV, YE.A. 12,45
TKACH, N.A. 6,48
TKACH, YU.V. 20
TODOROVSKAYA, R.V. 9
TOLKACHEV A.V. 85
TOLKACHEVA, I.F. 69
TOLMACHEV, G.N. 21
TOLSTOROZHEV, G.B. 45
TOLSTOY, M.N. 5
TOMIN, V.I. 16
TOMKYAVICHYUS, T. 45
TORCHUN, N.M. 91
TOROPOV, A.K. 77
TOVSTYUK, K.D. 91
TRACHUK, V.S. 79
TRAKHTENBERG, L.I. 25
TREGUB, D.P. 57
TRET'YAKOV, D.N. 33
TREVOGO, I.S. 60
TRIBEL'SKIY, M.I. 90
TRIEBEL, W. 43
TROFIMOVSKIY, V.V. 79
TROITSKIY, I.N. 56
TROITSKIY, YU.V. 100
TROSHIN, B.I. 17
TRUNOV, V.I. 36
TRUSHIN, S.A. 22,24
TRUSOV, K.K. 16
TSAPENKO, P.M. 86
TSARFIN, V.YA. 70
TSEKHOMSKIY, V.A. 62
TSELIKOV, A.I. 85
TSIBULYA, A.B. 59,85
TSITROVSKIY, V.V. 41
TSIULYANU, D.I. 61
TSIVKIN, M.V. 60
TSUKANOV, YU.M. 21
TSUKERMAN, V.A. 3
TSUKERMAN, V.G. 67
TSYRUL'NIKOV, D.A. 71
TUCHKEVICH, V.M. 2
TUCHKOV, L.T. 71
TULIBACKI, A. 31
TUMAYKIN, A.M. 17
TUNIMANOVA, I.V. 62
TURKIN, A.A. 23
TURUKHANO, B.G. 63,79
TURYANITSA, I.D. 41,61,67
TURYANITSA, I.I. 67
TYURIN, V.S. 11
TYURIN, YU.G. 32

U

UDOVENKO, N.F. 5
UGLOV, A.A. 89,92,93

ULIN, V.P. 3
ULYAKOV, P.I. 93
UMNOV, A.F. 32
URAZBAYEV, T.T. 60
URBANOVICH, A.I. 11
URIN, B.M. 19
USANOV, YU.YE. 71
USHAKOV, L.S. 86
USMANOV, R.G. 85
UZIKOVA, O.A. 1

V

VAGIN, L.N. 71, 72
VAKHTANOVA, L.P. 64, 69
VAKULENKO, V.M. 100
VALIAKHMETOVA, R.G. 69
VALOV, P.M. 32
VANDYUKOV, YE.A. 15
VANIN, N.V. 54
VANIN, V.A. 72
VARAVA, V.P. 60
VARD'YA, V.P. 60
VASIL'TSOV, V.V. 21
VASIL'YEV, A.M. 68
VASIL'YEV, G.K. 27
VASIL'YEV, V.P. 54
VASIL'YEVA, N.V. 67
VASILENKO, L.S. 7, 12, 78
VASILEVSKAYA, A.S. 34
VASIN, B.L. 78
VASINA, S.A. 34
VAYTKUS, YU. 62, 72
VEDENOV, A.A. 37
VEDERNIKOV, V.M. 86
VELIKHOV, YE.P. 5, 93
VENATOVSKIY, I.V. 86
VENKIN, G.V. 38, 39
VERESHCHAGIN, N.M. 21
VEREVKIN, YU.K. 40
VEREYKIN, V.A. 17
VEYDENBAKH, V.A. 72
VEYNBERG, V.B. 90
VEYNER, K.A. 79
VIDAVSKIY, L.M. 86
VIGASIN, A.A. 90
VINOGRADOV, A.M. 11
VINOGRADOV, A.V. 25
VINOGRADOVA, G.Z. 68
VISHCHAKAS, YU. 72
VISHCHAKAS, YU.K. 32
VISHNYAKOV, V.V. 86
VITLINA, R.Z. 43
VLASENKO, V.P. 6
VLASOV, A.N. 25
VLASOV, D.V. 40
VLASOV, N.G. 72
VLASOV, N.M. 1
VLASOV, S.N. 40
VLASOV, V.I. 72
VODOTYKA, G.S. 10
VOL, YE.D. 22
VOL'TER, V.G. 19
VOLK, T.R. 72
VOLKOV, I.V. 72, 100
VOLKOVITSKIY, O.A. 51, 54, 100
VOLOSEVICH, P.P. 93
VOLOSHIN, V.N. 21
VOLOSPINOV, V.B. 73
VOLOSOV, D.S. 60
VOLOSOV, V.D. 86
VOROB'YEV, F.A. 55
VOROB'YEV, M.YU. 28
VOROB'YEV, N.S. 34
VOROB'YEV, V.V. 86
VORON'KO, YU.K. 2, 6
VORONIN, V.F. 9
VORONOV, G.S. 94
VORSINA, I.A. 87
VORTMAN, M.I. 55
VOYEYKOVA, YE.D. 72
VOYTOV, V.I. 55
VOYTOVICH, A.P. 86
VOYTSEKHOVSKAYA, O.K. 55
VRANCHEV, D.P. 49
VU N'Y KYONG 38
VYATKINA, V.M. 71

W

WEIGMANN, H-J. 39
WENKE, L. 73
WERNCKE, W. 39
WIEDERHOLD, G. 19
WIEMER, A. 27
WILHELMI, B. 43
WOLINSKI, W. 93

Y

YAGNOV, V.A. 5
YAGUDAYEV, G.R. 32
YAKOVENKO, A.A. 31
YAKOVENKO, V.A. 9
YAKOVLENKO, S.I. 94, 98
YAKOVLEV, V.A. 83
YAKUSHKIN, I.G. 55
YALOVOY, V.I. 20
YAMPOL'SKIY, P.A. 83, 87
YAMPOL'SKIY, YE.S. 95
YAMSHANOV, YU.A. 86
YANUSH, O.V. 16
YANUSHKEVICH, V.A. 81, 88
YARASHYUNAS, K. 62, 72
YAROSH, A.M. 5, 93
YAROSHENKO, O.I. 16
YAROSHETSKIY, I.D. 32
YAROSLAVSKAYA, N.N. 73
YASTREBOV, A.A. 68
YEFIMENKO, I.M. 34
YEFIMENKO, L.V. 5
YEFIMENKO, M.N. 28
YEFIMOCHKIN, I.S. 87
YEFIMOV, V.F. 41
YEFIMOV, V.V. 83, 87
YEGOROV, V.A. 84
YEGOROV, V.V. 31
YEGOROV, YU.P. 77
YELENEVSKIY, D.S. 87
YELINSON, M.I. 61
YELISEYEV, P.G. 3, 4
YELKHOV, V.A. 65
YELKHOV, V.I. 65
YELKINA, L.P. 81
YEMEL'YANOV, V.I. 75
YEMEL'YANOV, V.P. 43
YEMETS, A.K. 89
YEREMENKO, A.S. 9, 13
YEREMEYEVA, T.P. 87
YERMACHENKO, V.M. 49
YERSHOV, YE.I. 60
YERYSHEV, V.A. 87
YEVSEYEV, I.V. 49
YEVTUKHOVICH, P.G. 9
YEZHOV, YE.P. 95
YUABOV, YU.M. 32
YUKOV, YE.A. 25
YURSHIN, B.YA. 7, 12, 36
YURTAYEV, YU.G. 87
YURYSHEV, N.N. 26
YUZHAKOV, V.I. 44

Z

ZABELIN, A.A. 80
ZABIRKO, S.P. 11
ZABIYAKIN, YU.YE. 16
ZAGIDULLIN, R.SH. 48
ZAGORSKAYA, Z.A. 73
ZAIKA, V.V. 6
ZAKHARENKOV, YU.A. 96
ZAKHAROV, I.S. 34

ZAKHAROV, K.G. 65
ZAKHAROV, S.I. 90
ZAKHAROV, S.M. 98
ZAKHAROV, V.M. 60
ZALABANI, M.E. 15
ZAMOTRINSKIY, V.A. 76
ZANADVOROV, P.N. 32
ZAPOL'SKIY, A.K. 26
ZARGAR'YANTS, M.N. 3
ZARSHCHIKOV, V.A. 33
ZASKAL'KO, O.P. 60
ZAVGORODNEVA, S.I. 78
ZAVOROTNYY, S.I. 18
ZAWODNY, R. 35
ZAYDEL', A.N. 73
ZAYKOV, V.A. 94
ZEL'DOVICH, B.YA. 51
ZEMSKOV, K.I. 9
ZEMTSOVA, E.G. 73
ZENCHENKO, V.P. 91
ZEYLIKOVICH, I.S. 73
ZHABOTINSKIY, M.YE. 5, 28, 47, 57, 79
ZHAROV, B.P. 11
ZHAVORONOK, I.V. 82, 87
ZHDANOV, B.V. 37
ZHELNOV, B.L. 47
ZHEREBTSOV, YU.P. 21
ZHEVLAKOV, A.P. 80
ZHGUN, S.A. 33
ZHIRYAKOV, B.M. 89
ZHIRYAKOV, V.G. 11
ZHITNEV, YU.N. 76
ZHLUDOVA, N.M. 28
ZHNIKRUP, A.I. 7
ZHOTIKOV, V.G. 33
ZHUKOV, A.A. 89
ZHUKOV, V.V. 21
ZHUKOVA, R.V. 71
ZHURAVLEV, V.YE. 76
ZIBOROVA, T.A. 92
ZIEMANN, J. 21
ZIMOGOROVA, N.S. 33
ZLENKO, A.A. 6, 60
ZON, B.A. 44, 49
ZUBAREV, I.G. 38, 39
ZUDKOV, P.I. 34, 55
ZUSMAN, M.I. 34
ZUYEV, V.A. 91
ZUYEV, V.S. 16, 20
ZUYEV, V.YE. 55
ZVEREVA, S.V. 53
ZVORYKIN, V.D. 29
ZYATITSKIY, V.A. 47
ZYKOV, L.I. 76
ZYSIN, YA.YU. 62
ZYUZIN, O.M. 58