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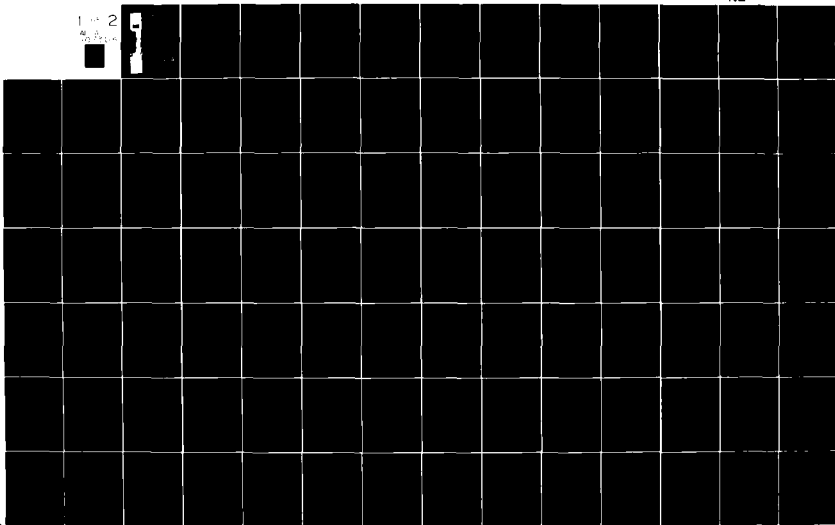
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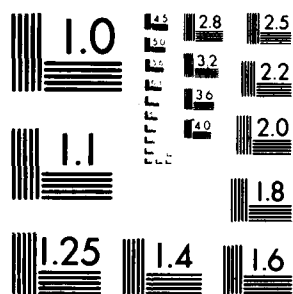
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4. TITLE (and Subtitle) BIBLIOGRAPHY OF SOVIET LASER DEVELOPMENTS, No 26, OCTOBER - DECEMBER 1976		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Intelligence Agency Directorate for Scientific and Technical Intelligence, Attn: DT-1A		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
12. REPORT DATE 11 25 Jul 1977		13. NUMBER OF PAGES 135 12 142
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
17. Distribution Statement (of the abstract entered in Block 20, if different from report)		
18. Supplementary Notes		
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, Laser Theory, Laser Biological Effects, Laser Communications, Laser Beam Propagation, Laser Computer Technology, Holography, Laser Chemical Effects, Laser Measurement Applications, Laser Parameters, Laser Beam-Target Interaction, Laser Plasma		
20. ABSTRACT This is the Soviet Laser Bibliography for October-December 1976 and is No. 26 in a continuing 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; beam propagation; computer technology; holography; laser-induced chemical reactions; instrumentation and measurements; beam-target interaction; and plasma generation and diagnostics.		

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No. 26

OCTOBER - DECEMBER 1976

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Introduction

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. It resumes the bibliography series on Soviet laser developments published until recently by Informatics Inc., Rockville, Maryland. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Russian Reference Journals are included, as well as entries from the CIRC data base not otherwise covered. Laser items from the popular press are generally omitted.

The period covered is the fourth quarter of 1976, and includes all significant laser-related articles received by us in that interval. The subject organization has been slightly altered, based on user feedback, as follows: (1) Under Section IC, Gas Lasers, ring lasers have been removed and will be included under Section IIG, Miscellaneous Measurements Applications; (2) A new subsection on excimer lasers will be added to Section IC when entries appear; (3) In Section IIB, Communications, the Beam Propagation subsections have been removed and made a separate category, IIC; (4) A new section following Monographs has been added listing currently available translations of laser articles.

For convenience we have abbreviated frequently cited source names; a source abbreviations list and an author index are included. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry (RZh, KL) indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library. The authors' affiliations are indicated by the numbers in parentheses following the authors' names in the text and are listed in the Author Affiliations List. New affiliations are assigned a new number and are added to a cumulative list which includes all affiliations from 1969 to the present. Only those affiliations which appear in this issue are listed in this issue's Author Affiliations List.

Starting with the next issue, this bibliography is scheduled to appear bimonthly, rather than quarterly as in the past.

SOVIET LASER BIBLIOGRAPHY, OCTOBER - DECEMBER 1976

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G. INSTRUMENTATION AND MEASUREMENT

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- H. BEAM- TARGET INTERACTION
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IV. TRANSLATIONS

A. COMMERCIAL TRANSLATIONS

A number of Soviet journals which contain articles on laser research are routinely translated cover-to-cover by commercial firms. These are generally available from four to twelve months after the original Russian publication appears. The bulk of such translated laser articles will be found in the following journals:

<u>Journal abbreviation</u>	<u>Transliterated title</u>	<u>English Translation</u>
FAiO	Akademiya nauk SSSR. Fizika atmosfery i okeana	Izvestiya, Atmospheric and Oceanographic Physics
FTP	Fizika i tekhnika polu- provodnikov	Soviet Physics--Semicon- ductors
-	Fizika plazmy	Soviet Journal of Plasma Physics
FTT	Fizika tverdogo tela	Soviet Physics--Solid State
IT	Izmeritel'naya tekhnika	Measurement Techniques
IVUZ Radiofiz	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika	Radio Physics and Quantum Electronics
KE	Kvantovaya elektronika	Soviet Journal of Quantum Electronics
KSpF	Kratkiye soobshcheniya po fizike	Soviet Physics. Lebedev Institute Reports
NM	Akademiya nauk SSSR. Iz- vestiya. Neorganicheskiye materialy	Inorganic Materials
OiS	Optika i spektroskopiya	Optics and Spectroscopy
OMP	Optiko-mekhanicheskaya promyshlennost'	Soviet Journal of Optical Technology

<u>Journal abbreviation</u>	<u>Transliterated title</u>	<u>English Translation</u>
PTE	Pribory i tekhnika eksperimenta	Instruments and Ex- perimental Techniques
RIE	Radiotekhnika i elek- tronika	Radio Engineering and Electronic Physics
TVT	Teplofizika vysokikh temperatur	High Temperature Physics
UFN	Uspekhi fizicheskikh nauk	Soviet Physics--Uspekhi
ZhETF	Zhurnal eksperimental'noy i tekhnicheskoy fiziki	Soviet Physics--JETP
ZhETF P	Pis'ma v Zhurnal eksperi- mental'noy i tekhnicheskoy fiziki	JETP Letters
ZhPMTF	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki	Journal of Applied Me- chanics and Technical Physics
ZhPS	Zhurnal prikladnoy spektro- skopii	Journal of Applied Spectroscopy
ZhTF	Zhurnal tekhnicheskoy fiziki	Soviet Physics--Technical Physics
ZhTF P	Pis'ma v Zhurnal tekhnicheskoy fiziki	Soviet Technical Physics. Letters

B. MISCELLANEOUS TRANSLATIONS

A number of laser books and articles in Russian are translated independently by private or government activities and can be obtained from these sources. It should be noted, however, that because of copyright restrictions, not all government-sponsored translations are available to the general public.

The following is a partial list of laser translations for the current interval:

Basov, N.G., A.Ye. Danilov, O.N. Krokhin, Yu.A. Mikhaylov, G.V. Sklizkov and S.I. Fedotov. Ultimate possibilities of spherical thermonuclear target heating by high-power multi-channel laser radiation. Article undated and

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V. SOURCE ABBREVIATIONS

APP	-	Acta physica polonica
BAPS	-	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Techniques
DAN SSSR	-	Akademiya nauk SSSR. Doklady
DAN Tadzh	-	Akademiya nauk Tadzhikskoy SSR. Doklady
DBAN	-	Bulgarska akademiya na naukite. Doklady
EOM	-	Elektronnaya obrabotka materialov
FAiO	-	Akademiya nauk SSSR. Izvestiya. Fizika atmosfera i okeana
FGiV	-	Fizika goreniya i vzryva
FikHOM	-	Fizika i khimiya obrabotka materialov
FTP	-	Fizika i tekhnika poluprovodnikov
FTT	-	Fizika tverdogo tela
IAN B	-	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IAN Lat	-	Akademiya nauk Latviyskoy SSR. Izvestiya
IT	-	Izmeritel'naya tekhnika
IVUZ Fiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Priboro	-	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelektr	-	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVUZ Radiofiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
KE	-	Kvantovaya elektronika
KhVE	-	Khimiya vysokikh energiy
KL	-	Knizhnaya letopis'
Kristal	-	Kristallografiya
MP	-	Mekhanika polimerov
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
RZhElektrotekh	-	Referativnyy zhurnal. Elektrotehnika i energetika
RZhF	-	Referativnyy zhurnal. Fizika
RZhFoto	-	Referativnyy zhurnal. Fotokinotekhnika
RZhGeofiz	-	Referativnyy zhurnal. Geofizika
RZhKh	-	Referativnyy zhurnal. Khimiya
RZhRadiot	-	Referativnyy zhurnal. Radiotekhnika
Sb1	-	Sbornik. Kvantovaya elektronika, no. 10, Kiyev, Naukova dumka, 1976.
Sb2	-	Respublikanskaya konferentsiya molodykh fizikov. AN UzSSR. 3rd. Tezisy dokladov. Tashkent, Fan, 1976.
Sb3	-	Vsesoyuznaya konferentsiya po kogerentnoy i nelineynoy optike. 8th. Tbilisi, 1976. Tezisy dokladov, v. 2. Tbilisi, Metsniyereba, 1976.
Sb4	-	Vsesoyuznaya konferentsiya po kogerentnoy i nelineynoy optike. 8th. Tbilisi, 1976. Tezisy dokladov, v. 1. Tbilisi, Metsniyereba, 1976.
Sb5	-	Nauchnoye priborostroyeniye dlya fizicheskikh issledovaniy. Part 1. Krasnoyarsk, 1975.
Sb6	-	Lazernyye puchki. Khabarovsk, 1975(1976).
Sb7	-	Kvantovaya elektronika, no. 11, Kiyev, Naukova dumka, 1976.
Sb8	-	Elektronika, no. 2, Ryazan', 1976.
Sb9	-	Sistemy stabilizirovannogo toka. Kiyev, Naukova dumka, 1976.
Sb10	-	Fotometricheskiye metody i apparatura dlya issledovaniy v IK-diapazone. Moskva, 1976.

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| Sb11 | - | Modulyatsionnaya spektroskopiya poluprovodnikov i dielektrikov. Tbilisi, 1975. |
| Sb12 | - | Opticheskiye metody obrabotki informatsii. Leningrad, 1974. |
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| Sb14 | - | Vsesoyuznaya konferentsiya Troynnye poluprovodnikov i ikh primeneniye. Tezisy dokladov. Kishinev, Shtiintsa, 1976. |
| Sb15 | - | Voprosy elektroniki SVCh, no. 9, Saratov, Saratovskiy universitet, 1976. |
| Sb16 | - | Issledovaniya materialov v usloviyakh luchistogo nagreva. Kiyev, Naukova dumka, 1975. |
| Sb17 | - | Lazernoye zondirovaniye atmosfery. Moskva, Nauka, 1976. |
| Sb18 | - | Voprosy distantsionnogo zondirovaniya atmosfery. Tomsk, 1976. |
| Sb19 | - | Problemy tekhnicheskoy elektrodinamiki, no. 58, 1976. |
| Sb20 | - | Primeneniye optiko-elektronnykh priborov v kontrol'no-izmeritel'noy tekhnike. Moskva, 1976. |
| Sb21 | - | Konferentsiya molodykh uchenykh. 7th. Sektsiya otbora i peredachi informatsii. Materialy. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov, 1975. |
| Sb22 | - | Voprosy lazernogo zondirovaniya atmosfery. Novosibirsk, 1976. |
| Sb23 | - | Rasprostroneniye opticheskikh voln v neodnorodnykh sredakh. Tomsk, 1976. |
| Sb24 | - | Elektromagniticheskoye sverkhizlucheniye. Kazan', 1975. |
| Sb25 | - | Golograficheskiye izmeritel'nyye sistemy. Novosibirsk, 1976. |
| Sb26 | - | Golograficheskiye metody i apparatura, primenyayemaya v fizicheskikh issledovaniyakh. Moskva, 1976. |
| Sb27 | - | Metody i sredstva preobrazov signalov. Riga, Zinatne, 1976. |

Sb28	-	Gertsenovskiy chteniye. 28th. Khimiya. Nauchnyye doklady. Leningrad, 1976.
Sb29	-	Gertsenovskiy chteniye. 29th. Fizicheskaya i poluprovodnikovaya elektronika. Nauchnyye doklady. Leningrad, 1976.
Sb30	-	Razvedochnaya geofizika, no. 70, 1976.
Sb31	-	Issledovaniya fiziko-khimicheskikh svoystv slozhnykh organicheskikh sistem metodami molekulyarnoy akustiki, no. 3, Tula, 1975.
Sb32	-	Nekotoryye voprosy fizicheskikh kinetiki tverdykh tel, no. 2, Cheboksary, 1976.
TK1T	-	Tekhnika kino i televideniya
Tr1	-	Moskovskiy energeticheskiy institut. Trudy, no. 281, 1976.
Tr2	-	Moskovskiy institut radiotekhniki, elektroniki i avtomatiki. Trudy, no. 80, 1975.
Tr3	-	Moskovskiy fiziko-tekhnicheskiy institut. Trudy. Seriya Radiotekhnika i elektronika, no. 10, 1975.
Tr4	-	Tsentral'nyy aerogidrodinamicheskiy institut. Uchenyye zapiski, v. 7, no. 3, 1976.
Tr5	-	Severo-Kavkazkiy nauchnyy tsentr vysshey shkoly. Izvestiya. Yestestvennyye nauki, no. 1, 1976.
Tr6	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya, no. 183, 1976.
Tr7	-	Khar'kovskiy universitet. Vestnik, no. 138, radiofizika i elektronika, no. 4, 1976.
Tr8	-	Astrofizicheskiye issledovaniya. Spetsial'naya astrofizicheskaya observatoriya. Izvestiya, no. 8, 1976.
Tr9	-	Moskovskoye vyssheye tekhnicheskoye uchilishche. Trudy, no. 219, 1976.
Tr10	-	AN SSSR. Fizicheskiy institut. Trudy, no. 87, 1976.
Tr11	-	Moskovskiy institut radiotekhniki, elektroniki i avtomatiki. Trudy, no. 82, 1975.
Tr12	-	Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 117, 1976.

Tr13	-	NII gidrometeorologicheskogo priborostroyeniya. Trudy, no. 33, 1976.
Tr14	-	Institut eksperimental'noy meteorologii. Trudy, no. 5(62), 1976.
Tr15	-	Trudy uchebnykh institutov svyazi. Ministerstvo svyazi SSSR, no. 79, 1976.
Tr16	-	Trudy metrologicheskikh institutov SSSR. VNII fiziko-tekhnicheskikh i radiotekhnich- eskikh izmereniy, no. 153(213), 1976.
Tr17	-	Trudy metrologicheskikh institutov SSSR. VNII metrologii, no. 192(252), 1976.
TVT	-	Teplofizika vysokikh temperatur
UFN	-	Uspekhi fizicheskikh nauk
UFZh	-	Ukrainskiy fizicheskiy zhurnal
VMU	-	Moskovskiy universitet. Vestnik. Seriya fizika, astronomiya
ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhFKh	-	Zhurnal fizicheskoy khimii
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

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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).
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).
82. Physicotechnical Institute, AN UkrSSR (Fiziko-tekhnicheskii institut AN UkrSSR).
84. Institute of Radiophysics and Electronics, AN UkrSSR (Institut radiofiziki i elektroniki AN UkrSSR).
87. Belorussian State University (Belorusskiy GU).
92. Physicochemical Institute im Karpov (Fiziko-khimicheskii institut im Karpova).
96. State Scientific Research Institute of Photochemical Planning (GOSNIIKhimFOTOPROYEKT).
98. Institute of Nuclear Physics at Moscow State University (Institut yadernoy fiziki pri Moskovskom GU).
99. Institute of Mechanics and Physics, Saratov (Institut mekhaniki i fiziki).
106. Kiev Polytechnic Institute (Kiyevskiy politekhnicheskii institut).
107. Khar'kov State Scientific Research Institute of Metrology (Khar'kovskiy gos NII metrologii).
110. Leningrad Electrotechnical Institute (Leningradskiy elektrotekhnicheskii institut).
118. Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskii institut).
119. Moscow Institute of Electronic Engineering (Moskovskiy institut elektronnoy tekhniki).
122. Scientific Research Institute of Physicochemistry im Karpov (NI fiziko-khimicheskii institut im Karpova).
133. Central Aerohydrodynamic Institute im Zhukovskiy (Tsentral'nyy aerogidrodinamicheskii institut im Zhukovskogo).
134. Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya).
136. Uzhgorod State University (Uzhgorodskiy GU).
140. All Union Scientific Research Institute of Physicotechnical and Radiotechnical Measurements (VNII fiziko-tekhnicheskii i radiotekhnicheskikh izmereniy, VNIFTRI).
141. All Union Scientific Research Institute of Opticophysical Measurements (VNII optiko-fizicheskikh izmereniy).
152. Moscow Institute of Steel and alloys (Moskovskiy institut stali i splavov).
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).
163. All Union Scientific Research Institute of Metrology im Mendeleyev (VNII metrologii im Mendeleyeva).
177. Riga Institute for Civil Aviation Engineers (Rizhskiy institut inzhenerov grazhdanskoy aviatsii).

193. Institute of Theoretical and Applied Mechanics, Siberian Branch, AN SSSR, Novosibirsk (Institut teoreticheskoy i prikladnoy mekhaniki SOAN).
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).
215. Physicotechnical Institute, AN TadzhSSR (Fiziko-tekhnicheskiy institut AN TadzhSSR).
220. Institute of Experimental Meteorology (Institut eksperimental'noy meteorologii).
231. Scientific Research Institute of Motion Pictures and Photography (NI kinofotoinstitut).
236. All Union Scientific Research Institute of Mining Geomechanics and Surveying (VNII gornoy geomekhaniki i marksheyderskogo dela).
244. Moscow Scientific Research Institute of Television (Moskovskiy NI televizionnyy institut).
251. Tomsk Institute of Automatic Control Systems and Radioelectronics (Tomskiy institut avtomatizirovannykh sistem upravleniya i radioelektroniki).
299. Institute of Electronics, AN BSSR (Institut elektroniki AN BSSR).
303. L'vov Branch of Mathematical Physics of the Institute of Mathematics, AN UkrSSR (L'vovskiy filial matematicheskoy fiziki Instituta matematiki AN UkrSSR).
311. All Union Scientific Research Institute of Mineral Resources, Moscow (VNII mineral'nogo syr'ya).
327. Novosibirsk Electrotechnical Institute (Novosibirskiy elektrotekhnicheskiy institut).
334. Scientific Research Institute of Applied Physical Problems at Belorussian State University (NII prikladnykh fizicheskikh problem pri Belorusskom GU).
343. North Caucasus Scientific Center of Higher Education (Severo-Kavkazskiy tsentr vysshey shkoly).
350. Institute of Applied Geophysics, AN SSSR (Institut prikladnoy geofiziki AN SSSR).
376. Kalinin State University (Kalininskiy GU).
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).
395. Scientific Research Institute of Introscopy (NII introskopii).
396. "Optika" Special Design Bureau for Scientific Instrument Manufacture, Siberian Branch, AN SSSR (Spetsial'noye konstruktorskoye byuro nauchnogo priborostroyeniya "Optika" SOAN).
397. Smolensk Branch of the Moscow Power Engineering Institute (Smolenskiy filial Moskovskogo energeticheskogo instituta).
398. Tyumen' State University (Tyumenskiy GU).
399. Special Astrophysical Observatory (Spetsial'naya astrofizicheskaya observatoriya).
400. All Union Scientific Research Institute of Electromechanics, Moscow (VNII elektromekhaniki).
401. Khabarovsk Polytechnic Institute (Khabarovskiy politekhnicheskiy institut).

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KUZENTSOV A YA	73	LETUCHIY A N	101	LYAKHOVSKAYA L V	71	MANDROSOV V I	31
KUZIKOVSKIY A V	57	LEVANOV YE I	103	LYKOV V A	101	MANKEVICH V N	85
KUZIVANOV V A	85	LEVCHENKO D G	74	LYNDIN N M	26	MANTUSH T N	62,64,
KUZ'MENKO V A	73	LEVICHEV A S	24	LYSIKOV YU I	59		65
KUZ'MIN G P	58	LEVIN G G	62,69	LYUBAVSKIY YU V	28	MARCHENKO S N	65
KUZ'MIN S V	73	LEVIN V A	78	LYUBIMOV YE M	68	MARCHENKO V M	18,105
KUZ'MIN V V	13	LEZAL D	67	LYUBIN V M	61,84	MARCHEVSKIY F N	63,68
KUZ'MINA N P	83	LIPATOV N I	20	LYUBOV B YA	91	MARGOLIN A D	14
KUZ'MINA N V	35	LIPOVSKIY A A	6			MARIS Z	65
KUZ'MINOV YU S	4,26,	LISITSA V S	104			MARKOV YU V	24
	64,92	LISOVSKIY F V	35	MAK A A		MASHCHENKO A I	23
KUZNETSOV A A	73	LISYANSKIY B YE	77		4,18,	MASTIKHIN V M	21
KUZNETSOV V A	101	LITVINYUK B T	46		97,98,	MASTRUKOV A F	32
KUZNETSOV V G	20	LIVSHITS M G	13		99	MASYUKOV V A	101
KUZNETSOVA V V	36,108	LIZIN I M	38	MAKAREVICH A N	9	MATEVA TS	69
		LOBANOV A N	11	MAKAROV A A	108	MATORIN I I	85
		LOGACHEV F A	26	MAKAROV V A	32	MATSKEVICH V K	19
		LOGINOV A V	67,81	MAKAROV V N	14	MATVEYENKO YE V	3
L		LOKHOV YU N	91,95	MAKAROV YE F	15	MATVEYEV I N	22
LANENKO V N	24	LONCHAR G	88	MAKAROVA L T	5	MATVEYEVA F I	100
LANSKAYA T G	60	LOPASOV V P	51,57	MAKAROVA T A	70	MATVIYENKO G G	46,48,
LAPTEV I D	99	LOPASOVA T A	40	MAKHROV YE T	20		56,57
LAPTEV V A	1	LOSEV V F	12,20	MAKHVILADZE T M	30,38	MAURER J	110
LATUSH YE L	13	LOTKOVA E N	108	MAKIN V S	77	MAYEV S A	52
LAVROV L M	103	LOYKO M M	6	MAKIYENKO E V	53,54	MAZANIK L A	40
LAVRUSHIN B M	44	LOZOVSKAYA T M	82	MAKOGON M M	51	MAZHUKIN V I	93
LAZAREV L P	44	LUEMKEMANN B	8,18	MAKSIMOVA G V	4	MAZURENKO YU T	85
LAZARUK A M	67	LUGOVOY V N	30,73	MAKSIMOVSKIY S M	3	MDINARADZE N I	72
LAZHINTSEV B V	16	LUKIN V P	53,56,	MAKSYUTIN V G	75	MEDRESH V G	76
LEBEDEV S A	5		59	MALAKHOV YU I	85	MEDVEDEV R N	99,100
LEBEDEV V I	40	LUK'YANOV V N	45	MALASHCHENKO V A	16	MELAMUD G B	78,86

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MEL'NIKOV N A	104	MITYAKOV V G	63	NADEZHDA B P	90	NOR-AREVYAN V A	16
MERKUL'YEV YU A	100	MITYKO G	45	NADEZHIN A D	15	NOSACH O YU	78
MESHKOV B B	26	MIT'KINA N N	36	NALIVAYKO V I	61,62,	NOSACH V YU	98
MESHKOV G G	27	MIZEROVA M N	3	NARSANYI A	80	NOGORODSTEV A B	26
MEYSNER L B	28	MKRICHYAN M M	11	NARZULLAYEV K N	45	NOVIKOV N P	92
MEZHI ZH	55	MOCHALKINA O R	23	NASEDKIN YE F	66	NOVIKOV S S	14
MIKAEL'YAN A L	45	MOGIL'NITSKIY B S	8	NAUMKIN N I	15	NOVOKHATSKIY V V	74,77
MIKHALEVSKIY V S	63	MOGIL'NITSKIY S B	58	NAZAROV A U	30	NOVOSELOV S K	65
MIKHAYLIK V G	13	MOLCHANOV A G	83	NECHAYEV V G	9	NOWAK A	26
MIKHAYLOV V S	42	MOLIN YU N	74	NEDAVNIY A P	61		
MIKHAYLOV YU A	91	MORAR A V	95	NEGASHEV S A	106		
MIKHAYLOV YU N	102	MOROZ E V	86	NEKRASOV A G	2		
MIKHEYCHEV V S	18	MOROZOV P A	1	NEMISHCHENKO YU P	86	OBRATZSOV G V	99,100
MIKHEYENKO A V	45	MOROZOV S V	77	NEMTINOV V B	15	OBRATZSOV M V	55
MILER N	17,45	MOROZOV V N	70	NEMTSEV I Z	45,70	OCHKIN V N	11
MILINKEVICH A V	86	MOROZOVA S P	63	NENCHENOV N M	102	ODINTSOV A I	84
MILOVIDOV V A	37	MOSINA G N	77	NEPOKOYCHITSKIY A G	5	ODULOV S G	70
MILYAYEVA N M	74	MOSKALENKO S A	60	NESTERIKHIN YU YE	85	OGANISYAN A S	102
MILYUTIN YE R	74	MOSKALENKO V F	28	NESTEROV A A	62	ONIN V V	8
MIL'CHAKOV V A	54	MOSKVIN YU L	42	NESTEROV YU V	47,103	OPRAN M E	45
MINKOV I M	19	MOSTOVNIKOV V A	17	NESTRIZHENKO YU A	70	ORAYEVSKIY A N	1,15,16,17,72,104
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MIRON N	9,10	MOVSEYAN M YE	45	NEUSTRUDEV V B	78		
MIRONOV V L	110	MOVSEYAN V G	86	NEVOLIN V N	4	ORESHAK O N	14
	47,51,	MTSKERADZE G SH	83,86	NEZHEVENKO YE S	99	ORLETSKIY V B	2
	53,54,	MUKHAMED'YAROV R D	62		26,44,	ORLOV A N	13
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MIRONOV V N	78,86	MURUGOV V M	93,102		80	ORLOV V K	12,16
MIROSHNICHENKO V I	32	MUSIKHIN L A	75	NICOLAU S	65	ORLOV YE F	66
MIROSHNIKOV M M	39	MYL'NIKOV V S	22	NICULESCU A	7	ORLOV YE P	78
MIRZAYEV A	109	MYZINA V A	94	NIDAYEV YE V	93	OSADCHEV L A	45
MIRZAYEV A T	10,24,		3	NIKIFOROV S M	58	OSIKO V V	4,64
	92,93			NIKITENKO A I	100	OSTAPCHENKO YE P	14
MISHIN A I	62			NIKITIN A I	16,17	OSTROVSKIY L V	27
MISHIN V A	73			NIKITIN V V	64,66	OSYKA B V	45
MISHIN V I	72			NIKITIN V YU	104	OVCHECHNIKOV V M	28,101
MISHUCHKOV G A	103			NIKITIN YE P	80	OVECHKIS YU N	44
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RANDOSHIN V V	88	RUPASOV A A	97, 98	SARKISOV V I	25	SHABLYA A V	6
RATS B	6	RUSETSKIY A N	104	SARKISYAN G S	86	SHADRIKOV O A	39
RAYZER YU N	102	RUSYN B P	45	SARTAKOV B G	34	SHAKHIDZHANOV S S	4
RAZZHIVIN B P	26	RYABENKO A G	15	SARYCHEV M YE	30	SHAKHVERDOV P A	10
RED'KO V P	43	RYABOV V N	43	SATOV YU A	9	SHAKIROV V A	18
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	109			SAVUSHKIN A F	80	SHARAKHIMOV M SH	8, 10
RIZKIN A A	70	SAFRONOV YU P	109	SAVA V A	37	SHAREVSKIY B A	41
ROGOV S A	60	SALAMOV I V	83	SAYAPIN G N	10	SHARLAY S F	79
ROKLENKO D A	37	SAL'KOVA YE N	70	SAZANOVICH V M	56	SHATSEV A N	98
ROMAN'KO K S	81	SALTIEL S M	37	SEDEL'NIKOV V A	81	SHAYDUROV V O	33
ROMANOV G N	4	SALTIRKOV A N	82	SEDOV B M	97	SHCHAVLEV L I	54
ROMANOVSKIY A B	66	SAMARIN V I	46	SEIFERT W	21	SHCHEGLOV V A	103
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RUBANOV G M	96	SAMSON A M	91	SENATSKIY YU V	4, 25	SHELKOVNIKOV YU K	24
RUBINOV A N	22, 80	SAMSONOV G V	74	SEREBRIN V L	71	SHELOPUT D V	21
RUBINOV YU A	10	SAMUTLOVA N K	35, 36	SEREBRYAKOV V A	97, 98	SHELOPUT T A	81
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RUDOV YU K	39	SAPONDZHAN S O	86	SEROV A P	6	SHEREPA V F	71
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	49, 75,	SARKISOV B V	74	SHABANOV V F	34	SHEYNKMAN M K	70
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SHIBANOV V S	26	SINITSYN V A	46	SOLOUKHIN R I	13	STREKALOVSKAYA YE YU	85
SHIGORIN V D	22	SINYAVSKIY E P	4	SOLOV'YANCHIK D A	9	STRELKOV G M	51
SHIKANOV A S	97, 98	SKACHKOV A N	72	SOLOV'YEV A P	35	STREL'TSOV V N	73
SHILE V P	84	SKIBA P A	85	SOLOV'YEV V S	27, 78	STRIGYN V L	5
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SHKODA-UL'YANOV V A	74	SLAVNOV S G	81	SOSNIN A V	70	SUBASHIYEV V K	79
SHMELEV V M	14	SLEPKOV I A	78	SOTIN V YE	55	SUDAKOV V F	15
SHMIT O A	21	SLESAREV A I	24	SOTNICHENKO S A	41, 64	SUDAKOV V V	9
SHOKHUDZHAYEV N	3	SMIRNITSKIY V B	74	SPASIBENKO V A	17	SUKHANOV I I	19
SHOKIN B A	80	SMIRNOV N D	39	SPEKTOR B I	91	SUKHANOV L V	16
SHOLOKHOV V A	77	SMIRNOV V N	52	SPIKHAL'SKIY A A	45	SUKHAREV B V	33
SHPAK M T	6, 106	SMIRNOV V V	95	SPOREA D	46, 47	SUKHOVERKHOVA L G	70
SHREYBER S V	41	SMIRNOV YE A	73	SPORNIK N M	110	SUPONIN V I	93
SHTERNBERG A R	61	SMIRNOVA S N	12	STABINIS A YU	88	SURAN V V	88
SHTYRKOV YE I	59, 63,	SMIRNOVA T A	87	STABNIKOV M V	36	SURDUTOVICH G I	9
	71, 94	SMOLINSKA H	37	STAFEYEV V I	84	SUSHKO V A	20
SHUKUROV N	10	SMOLYA A V	68	STAMENOV K V	22	SUSHKOV O P	29
SHUL'GA A YA	77	SNEZHKO YU A	24	STANKOV K A	37	SUSLINA L G	36
SHUMYATSKIY P S	103	SNITKO O V	88, 89	STARIK P M	2	SUYNOV V	69
SHUR V L	75	SOBEL'MAN I I	26	STARIKOV A D	97, 98,	SVECHNIKOV S V	46
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SHVARTSBURG A V	39, 41	SOBOLEV M M	4	STARY V	1	SVETLICHNYY I B	14
SHVYRKOVA I I	109	SOBOLEV N N	94	STASEL'KO D I	88	SVIRIDENKO YU P	19
SIBEL'DIN N N	91, 95	SOBOLEV V S	11, 108	STEL'MAKH O M	5, 69,	SVIRIDOV A N	12
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SIDORENKO N B	74	SOBOTKOVSKAYA YE F	91	STEPANOV B M	76		34, 46,
SIDORENKO V I	25	SOKOL V A	12	STEPANOV B M	18		47
SIDOROVICH V G	12	SOKOLOV A V	37	STEPIN L D	2, 39,	SYNAKH V S	32
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SIMAKOV S F	51	SOLODKIN D N	35	STOTSKIY F I	62	TAKTAKISHVILI M I	66
SIMAKOV V P	85	SOLODKIN YU N	84		81	TAL'ROZE V L	15
SIMONOV A P	63	SOLODKOV A F	81, 87		43	TAMANIS M YA	21
SINITSYN I G	5	SOLONENKO V I	42		96	TANANYKHIN A A	91
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TARASOV G G	88	TROPIKHIN YU D	12			VINOGIN YU P	49
TARASOV R P	46	TROTSENKO V P	80	UDAL'TSOV V S	85	VINOGRADOV A V	98
TARASOV S V	109	TRUBACHEYEV E A	11	UGLOV A A	91, 95,	VINOGRADOV G K	89
TARTARENKOVIY G KH	105	TRUBETSKOY A V	21, 61		96	VINOKUROV G N	98
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TATARINTSEV L V	12	TRUNOV V I	46	UMNOV A F	22	VITRIKHOVSKIY N I	93
TATULOV R A	41	TRUSHKIN V I	15	URLIN V D	76, 103	VLAD V I	110
TELEGIN G F	22	TSAPENKO M P	81	USHAKOV G V	55	VLASENKO N A	2
TELESNIN R V	88	TSARENKOV B V	23	USHAKOVA T N	27	VLASOV N A	64
TERICHEV V F	41	TSARFIN V YA	87	UTKIN YE N	86	VLASOV N G	87
TERTICHKO R P	108	TSENTER M YA	30	UZHEGOV V N	51	VLASOV R A	96
TERUKOV YE I	60	TSEYTLIN G I	47			VLASOV S N	60
TESELENKO V S	58	TSIDULKO I M	2, 3	V		VLASOV YU N	89
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TIKHONOV YE A	6	TSOROVYEV A O	19	VALOV P M	24	VOLCHENOK V I	11
TIMOFEEV V V	16	TSUKERMAN V G	61, 62,	VANETSIAN R A	89	VOLK T R	92
TIMOFEEV YU P	36		70	VARAVA V P	46	VOLKOV V A	103
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TITOV G A	48, 50	TSVETKOV V A	36	VASILEVSKAYA A S	24, 25,	VOLKOVA YE N	29
TRACHUK A M	1	TSVYK R SH	50		27	VOLOSEVICH P P	93, 103
TRACHUK G B	60	TSYGANOV V P	3	VASILIK N YA	14	VOLOSHCHENKO YU I	64
TOLMACHEV G N	13	TUKISH V YE	76	VASIL'YEV A A	64	VOLOSHINA YE A	90
TOLSTOY M N	4	TULINOV G F	55	VASIL'YEV A V	91	VOLOSOF V D	29, 30
TOMBAK M A	84	TUL'SKIY S A	99	VASIL'YEV G K	15	VOLYAK K I	29
TOMIN V I	6	TURIYANSKIY YE A	59	VASIL'YEV L A	12	VOREVODIN YU M	48, 56
TOMOV I V	37	TURUNDAYEVSKIY V B	10	VASIL'YEV V V	47	VOROB'YEV F A	19
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TRAKHTENBERG L I	16		100	VEDERNIKOV V M	88	VORON'KO O N	18
TREGUBOV S I	85	TVERDOKHLEB P YE	21, 60,	VELIKHOV YE P	96	VORON'KO YU K	4
TRENEVA YE G	5		64	VEREMEY V V	98	VORONOV V V	64
TRIBEL'SKIY M F	95	TYAGAY V A	26	VERETENNIKOV V V	56	VOVCHENKO V I	27
TRIEBEL W	6	TYCHINSKIY V P	88, 89	VERKHOTUROV A D	91	VOVK YU V	71
TROFIMOV A N	13	TYUL'KOV G I	49	VERKHOVSKAYA K A	92	VOYTOVICH A P	15

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Y		YONDENKO I N	76	ZHABOTINSKIY M YE	41		
		YUKAROV O S	83	ZHARKOV YU V	82		
YAKOVLENKO S I	110	YUKOV YE A	98	ZHAROV V P	33		
YAKOVLEV V A	83	YUNDEV D A	103	ZHAVORONKOV L M	24		
YAKOVLEVA ZH S	35	YURCHUK E F	102	ZHDANOV V G	65		
YAKOVUK O A	65	YURGA N I	56	ZHELTOV G I	27		
YAKUBOVICH S D	45	YURYSHEV N N	15	ZHERIKHIN A N	96		
YAKUBOVICH YE I	92,94	YUSHIN A S	40	ZHIDOV I G	103		
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YANOVSKIY V P	39			ZHIVNOV V A	6		
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YAROSLAVSKIY A I	96	ZADDE G O	55,56	ZHURAVSKIY L G	10		
YASTREBOV V N	78,86	ZAKHARENKOV YU A	98	ZHVAVYI S P	96		
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YEFIMOV V M	103	ZAKHAROV V M	50	ZLENKO A A	4,34,		
YEFREMOV A V	50	ZAKHAROV V P	89		47		
YEGOROV A A	10	ZAKURENOV V M	89	ZOLOTAREV V F	25		
YEGOROV B V	10	ZAKOVETS N V	36	ZOLOTOV YE M	47		
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