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SUPPORT OF MARK III OPTICAL INTERFEROMETER(U)  
SMITHSONIAN ASTROPHYSICAL OBSERVATORY CAMBRIDGE MA  
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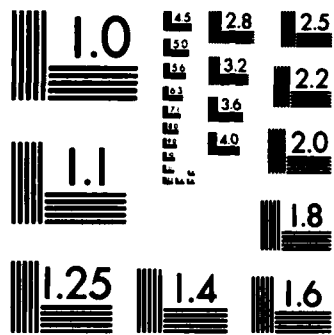
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SUPPORT OF MARK III OPTICAL INTERFEROMETER

Contract No. N00014-85-C-2212

Final Report

For the Period 16 May 1985 through 15 May 1986

Principal Investigator

Dr. Michael Shao

July 1986

Prepared for  
Naval Research Laboratory  
Washington, DC 20375

Smithsonian Institution  
Astrophysical Observatory  
Cambridge, Massachusetts 02138

The Smithsonian Astrophysical Observatory  
is a member of the  
Harvard-Smithsonian Center for Astrophysics

The NRL Technical Officer for this contract is Dr. Kenneth Johnston, Code  
4130, Washington, DC 20375.

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A great deal of progress was made during the course of the contract on the fabrication of the components needed for the Mark III interferometer. This contract is for the second year of a four-year effort to build a long baseline interferometer for astrometry. At present, all of the mechanical, optical, electronic, and software components that are necessary for initial fringe observations have been designed, fabricated, or written. During the months of June and July, we will be shipping this equipment to Mt. Wilson. During July and August, we will be assembling, testing, and integrating the components into the instrument. We expect the first light in September. The Mark III will be the first optical interferometric observatory in the U.S. and the first astrometric observatory to use a stellar interferometer. ←



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