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Spatial Interferometry in Optical Astronomy

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TABLE OF CONTENTS

INTRODUCTION

Spatial Interferometry in Optical Astronomy is a bibliography of published research on the application of spatial interferometry techniques to astronomical observations at visible and infrared wavelengths. The key words "spatial" and "optical" limit the scope of this discipline, distinguishing it from astronomical radio VLBI interferometry, or spectroscopy using interferometric techniques.

Optical interferometry in astronomy has its roots in the 19th Century, yet it is a comparatively young field. The active period of experimentation and observation is scarcely two decades old (98% of the articles listed here have been published since 1970). A large and very active international research community has developed; over 70 conferences and workshops have been held during that period. Since much of the research has been published in the proceedings of those meetings and in specialized technical journals, rather than in the traditional astronomical literature, the extensive activity in this field has not been fully recognized.

Spatial interferometry has emerged among the next generation of proposed major space astronomy missions as one of the most promising candidates in the class of the Hubble Space Telescope. An optical interferometry observatory has also been identified with high-priority as one of the first scientific installations in a new NASA initiative for a proposed manned lunar base. The purpose of this document is to identify the large body of published literature in this field, to organize it into specific technical subject areas, and to make it accessible to a broad scientific/engineering community.

The first five sections of *Spatial Interferometry in Optical Astronomy* summarize research work in each of the major sub-fields of optical interferometry. The articles in each catagory are listed in chronological order (by year of publication) to show the evolution of the research (within each year the articles are organized alphabetically by first author; it was not feasible to include the exact date of publication in the data base). Section *A. Review Articles* contains a sample of articles presenting an overview of the field, although listings in other catagories will also be found to be general in nature. *B. Theory* summarizes publications dealing with basic theoretical concepts and algorithms proposed and applied imaging and optical interferometry, including observations through a turbulent atmosphere. It is divided for convenience into speckle and non-speckle interferometric techniques. Section *C. Experimental Techniques* identifies instrumental methods and laboratory experiments, for application to astronomy observations or data reduction. Section *D. Astronomical Observations* lists publications dealing specifically with the results of spatial interferometry observations of astronomical sources, divided into Solar, Solar System, Stellar, and Infrared sub-catagories. *E. Space Interferometry Concepts* summarizes proposed space missions, spacecraft experiments, and lunar-based interferometer concepts.

Section *F. Master Bibliography* is the full listing of all publications in the field, organized alphabetically by first author. While the General chronological development of the field is lost in the *Master Bibliography*, it provides a systematic way to identify publications, and indicates the major work of researchers and active research groups. The sequence of events in each research area can easily be traced through the chronological subject listings in Sections A - E.

The editors invite any comments, additions, and corrections to this document. Please address your remarks or requests for additional copies to Dr. Daniel Y. Gezari, NASA/Goddard Space Flight Center, Code 685, Greenbelt, MD 20771. We are grateful to Enid Chandler for her dedicated editorial assistance, to Len Moriarity for his database programming work, and to Luanne Giese for publication guidance, in the preparation of this document at NASA/GSFC.

Editors' Note: For clarity and conciseness in this document, citations of conference proceedings are listed by the title of the conference only. The full bibliographic citations for the published proceedings of conferences (meeting location, editors, publishing institution, city of publication, etc.) are given in this unabridged *Conference List*, arranged alphabetically by the title of the conference.

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1. *Michelson Interferometry*
2. *Long Baseline Interferometry*
3. *Speckle Interferometry*
4. *Coherent Telescope Arrays*
5. *Infrared Experiments*
6. *Pupil Plane Interferometry*
7. *Atmosphere-Related Experiments*
8. *Adaptive Optics*
9. *Instrumentation, Techniques and Facilities*

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1. Space Interferometers

2. Interferometry with Large Space Telescopes

3. Lunar-based Interferometry

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16. Abstract

This report is a bibliographic guide to publications of spatial interferometry techniques applied to optical astronomy. Listings appear in alphabetical order, by first author, as well as in specific subject categories listed in chronological order, including imaging theory and speckle interferometry, experimental techniques, and observational results of astronomical studies of stars, the Sun, and the solar system.

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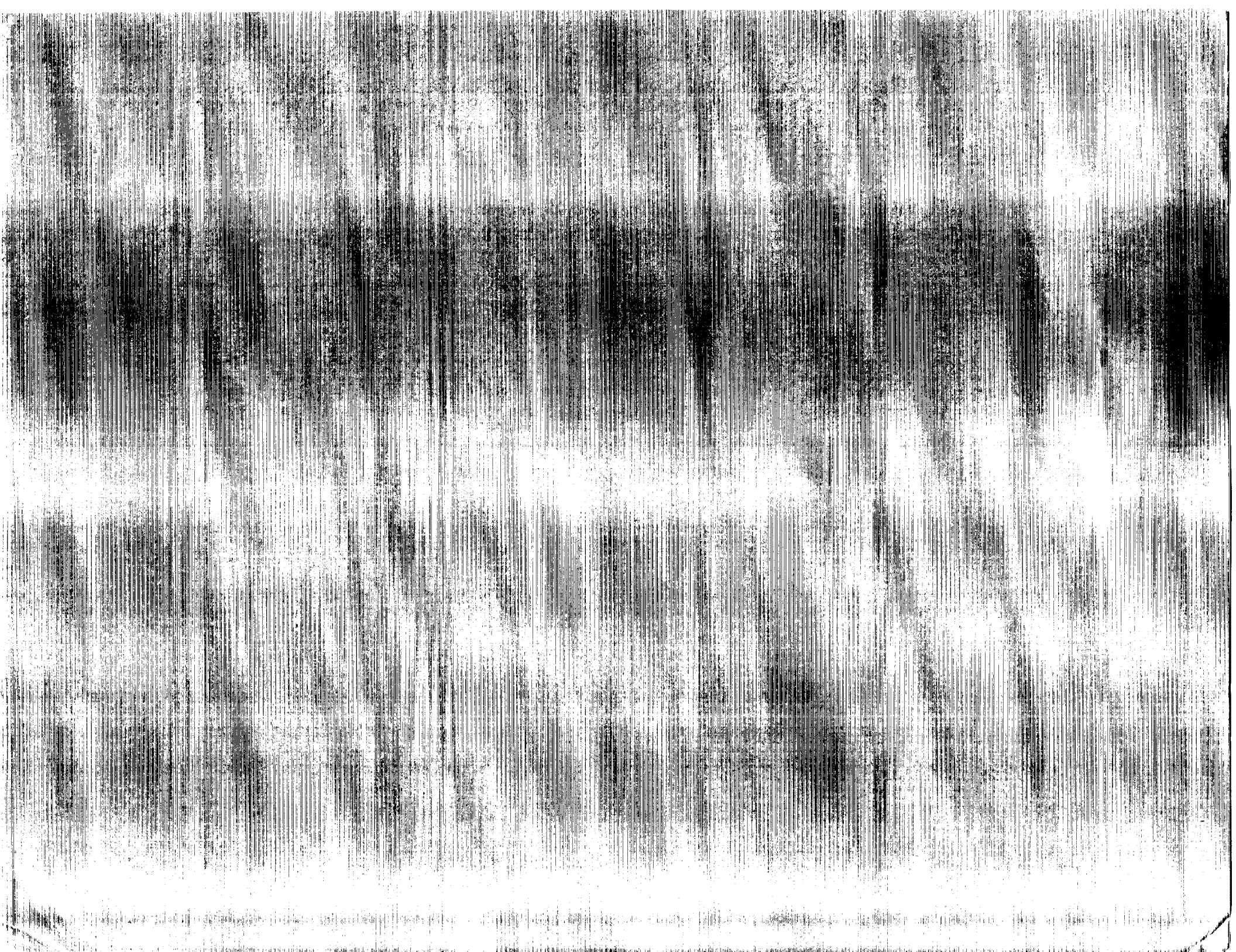

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