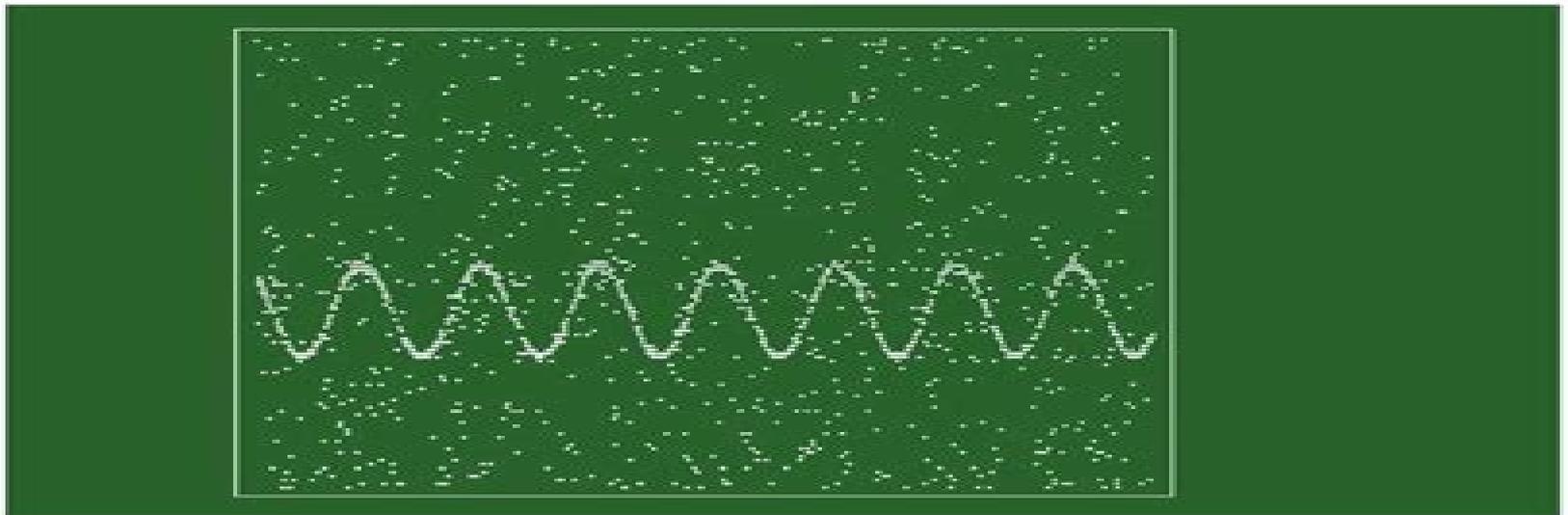


INTERNATIONAL ASTRONOMICAL UNION
SYMPOSIUM No. 158

VERY HIGH ANGULAR RESOLUTION IMAGING

Edited by J.G. ROBERTSON and W.J. TANGO



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Very High Angular Resolution Imaging

**A. Lagrange, Denis Mourard, Pierre
Léna**



Very High Angular Resolution Imaging:

Very High Angular Resolution Imaging J.G. Robertson, W.J. Tango, 2013-12-01 The 1990s are proving to be a very exciting period for high angular resolution astronomy. At radio wavelengths a combination of new array instruments and powerful imaging algorithms have generated images of unprecedented resolution and quality. In the optical and infrared the great technical difficulties associated with constructing separated aperture interferometers have been largely overcome and many new instruments are now operating or are being developed. As these programs start to produce observational results they will be able to draw extensively on the experience gained by the radio interferometry community. Thus it seemed that the time was ripe for a meeting which would bring together workers from all wavelength ranges to discuss the details of the science and art of Very High Angular Resolution Imaging. While the main emphasis of Symposium No 158 was on high resolution techniques from the radio mm wave infrared and optical bands it also provided an opportunity for presentation of astronomical results from these techniques. As well as giving our colleagues from the Northern Hemisphere a break from midwinter the location of the Symposium in Australia recognised the continuing development of astronomical interferometry in this country especially the recent completion of the Australia Telescope radio array and the progress toward commissioning of the Sydney University Stellar Interferometer. A number of the participants visited these instruments during the post symposium tour.

Very High Angular Resolution Imaging J. G. Robertson, W. J. Tango, 2014-09-01 **Very High Angular Resolution Imaging** International Astronomical Union. Symposium, 1994 The proceedings of the 158th Symposium of the International Astronomical Union held at the U of Sydney Australia January 1993 comprise invited and contributed papers in the areas of radio optical comparisons transfer of techniques imaging techniques radio array instruments optical and infrared interferometers and arrays instrumentation and techniques imaging theory impact of technology radio and millimeter waves optical and infrared adaptive optics and seeing aperture distributions imaging results radio and millimeter waves optical and infrared astrometry frontier techniques and future prospects. Includes the text of a public lecture given by Nobel Laureate C H Townes on Surprise and Sociology in Multi Disciplinary Sciences. Annotation copyright by Book News Inc Portland OR

Astronomy at High Angular Resolution Henri M. J. Boffin, Gaiete Hussain, Jean-Philippe Berger, Linda Schmidtbreick, 2016-08-24 This book offers an essential compendium of astronomical high resolution techniques. Recent years have seen considerable developments in such techniques which are critical to advances in many areas of astronomy. As reflected in the book these techniques can be divided into direct methods interferometry and reconstruction methods and can be applied to a huge variety of astrophysical systems ranging from planets single stars and binaries to active galactic nuclei providing angular resolution in the micro to tens of milliarcsecond scales. Written by experts in their fields the chapters cover adaptive optics aperture masking imaging spectra disentangling interferometry lucky imaging Roche tomography imaging with interferometry interferometry of AGN AGN reverberation mapping Doppler and magnetic imaging of stellar surfaces

Doppler tomography eclipse mapping Stokes imaging and stellar tomography This book is intended to enable a next generation of astronomers to apply high resolution techniques It informs readers on how to achieve the best angular resolution in the visible and near infrared regimes from diffraction limited to micro arcsecond scales

ESO Conference on Very Large Telescopes and Their Instrumentation, Garching, 21-24 March 1988 M. H. Ulrich,1988 A High Angular Resolution Survey of Circumstellar Dust Around Herbig Ae/Be Stars Marshall Dimsey Perrin,2006 **NOAO-ESO Conference on High-Resolution Imaging by Interferometry** Fritz Merkle,1988 **Amplitude and Intensity Spatial Interferometry** Jim Bernard Breckinridge,1990 **Very Large Telescopes, Their Instrumentation and Programs** M. H. Ulrich,K. Kjær,1984 *ESO Conference on High-Resolution Imaging by Interferometry II* Jacques Maurice Beckers,Fritz Merkle,1992 *High Angular Resolution in Astrophysics* A. Lagrange,Denis Mourard,Pierre Léna,2012-12-06

Over the last decade many efforts have been made to develop high angular resolution techniques in astrophysics Combined with imaging facilities they have rapidly proved their efficiency and have already led to major astrophysical results During the decade to come astronomers will be offered new even more sophisticated high angular resolution tools especially in the IR and optical domains coupled with much bigger telescopes either on the ground or in space In such a context of rapidly evolving techniques and a growing need for higher angular resolution to test theories or discover new objects the present book reviews both instrumental and scientific aspects The main questions addressed are what kind of science will benefit from high angular resolution techniques How can they best be used Audience The book is accessible to students and research workers in both instrumental and astrophysical aspects

Amplitude and Intensity Spatial Interferometry II ,1994 Electron Microscopy and Analysis ,1997 **Western Aerospace** ,1961 **High Angular Resolution Diffusion MRI** Maxime Descoteaux,2008

At the current resolution of diffusion weighted DW magnetic resonance imaging MRI research groups agree that there are between one third to two thirds of imaging voxels in the human brain white matter that contain fiber crossing bundles This thesis tackles the important problem of recovering fiber crossing bundles from DW MRI measurements The main goal is to overcome the limitations of diffusion tensor imaging DTI It is well known that imaging voxels where there are multiple fiber crossings produce a non Gaussian DW signal This is precisely where DTI is limited due to the intrinsic Gaussian assumption of the technique Hence this thesis is dedicated to the development of local reconstruction methods segmentation and tractography algorithms able to infer multiple fiber crossing from DW MRI data To do so high angular resolution diffusion imaging HARDI is used to measure DW images along several directions Q ball imaging QBI is a recent such HARDI technique that reconstructs the diffusion orientation distribution function ODF a spherical function that has its maxima aligned with the underlying fiber directions at every voxel QBI and the diffusion ODF will play a central role in this thesis There are many original contributions in this thesis First we propose a robust estimation of the HARDI signal using a closed form regularization algorithm based on the spherical harmonics Then we estimate the apparent

coefficient coefficient ADC to study HARDI anisotropy measures and to discriminate voxels with underlying isotropic single fiber and multiple fiber distributions Next we develop a linear robust and analytical QBI solution using the spherical harmonic basis which is used in a new statistical region based active contour algorithm to segment important white matter fiber bundles In addition we develop a new spherical deconvolution sharpening method that transforms the diffusion q ball ODF into a fiber ODF Finally we propose a new deterministic tractography algorithm and a new probabilistic tractography algorithm exploiting the full distribution of the fiber ODF Overall we show local reconstruction segmentation and tracking results on complex fiber regions with known fiber crossing on simulated HARDI data on a biological phantom and on multiple human brain datasets Most current DTI based methods neglect these complex fibers which might lead to wrong interpretations of the brain anatomy and functioning

Galaxies and Their Constituents at the Highest Angular Resolutions International Astronomical Union. Symposium, Richard T. Schilizzi, International Astronomical Union. General Assembly, 2001

UV and Gamma-ray Space Telescope Systems Günther Hasinger, Martin J. L. Turner, 2004 **Planetary Nebulae** International Astronomical Union. Symposium, 2003 *HIGH ENERGY ASTROPHYSICS 21ST JOSS*, 1990 **X-ray/EUV Optics for Astronomy, Microscopy, Polarimetry, and Projection Lithography** Richard B. Hoover, A. B. C. Walker, 1991

Very High Angular Resolution Imaging: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Very High Angular Resolution Imaging : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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