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Adaptive Optics Demonstration Model

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Binary adaptive optics involves using a simple two-state algorithm for wavefront correction. The technique lends itself to implementation using ferroelectric liquid crystal spatial light modulators (FLC-SLMs) as half-wave and quarter-wave phase shifters.

Binary adaptive optics: a status report - SPIE

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Binary adaptive optics: a status report

Binary adaptive optics: a status report Love, Gordon D. 1994-05-31 00:00:00 ABSTRACT Binary adaptive optics involves using a simple two-state algorithm for wavefront correction. The technique lends itself to implementation using ferroelectric liquid crystal spatial light modulators (FLC-SLMs) as half-wave and quarter-wave phase shifters.

Binary adaptive optics: a status report, Proceedings of ...

Binary adaptive optics: a status report Binary adaptive optics involves using a simple two-state algorithm for wavefront correction. The technique lends itself to implementation using ferroelectric liquid crystal spatial light modulators (FLC-SLMs) as half-wave and quarter-wave phase shifters. In this paper we demonstrate further

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binary adaptive optics - a status-report By G LOVE, P DOEL, R MYERS, A PURVIS and R SHARPLES Topics: Science & Technology, Physical Sciences, Astronomy & Astrophysics, Optics

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Recently CHARA has started using the Mount Wilson Institute Adaptive Optics system (MWI-AO) to complement its standard speckle program of binary star astrometry. The main goal of the adaptive optics program is to determine magnitudes of each individual component of these binaries, which will yield spectral types. The eventual aim is to combine the astrometric and photometric information, in ...

Adaptive Optics Studies of Binary Stars - NASA/ADS

Binary adaptive optics: a status report Binary adaptive optics: a status report The technique lends itself to implementation using ferroelectric liquid crystal spatial light modulators (FLC-SLMs) as half-wave and quarter-wave phase shifters. Title: Adaptive Optics Observations of Exoplanets, Brown ...

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ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS¹ Lewis C. Roberts, Jr. The Boeing Company, 535 Lipoa Parkway, Suite 200, Kihei, HI 96753; lewis.c.roberts@boeing.com Nils H. Turner CHARA, Georgia State University, Mount Wilson, CA 91023; nils@chara-array.org L. William Bradford

ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS¹

Adaptive Optics Observations of Exoplanets, Brown Dwarfs, & Binary Stars . By Sasha Hinkley. Abstract. a Topics: adaptive optics ...

Adaptive Optics Observations of Exoplanets, Brown Dwarfs ...

OSTI.GOV Journal Article: Binary stars observed with adaptive optics at the starfire optical range Title: Binary stars observed with adaptive optics at the starfire optical range Full Record

Binary stars observed with adaptive optics at the starfire ...

The current direct observations of brown dwarfs and exoplanets have been obtained using instruments not specifically designed for overcoming the large contrast ratio between the host star and any wide-separation faint companions. However, we are about to witness the birth of several new dedicated observing platforms specifically geared towards high contrast imaging of these objects. The Gemini ...

[1112.1765] Adaptive Optics Observations of Exoplanets ...

Discovery of Three Very Low Mass Binary Systems: An Adaptive Optics Survey of M6.0 – M7.5 Stars - Volume 211 - Nick Siegler, Laird M. Close, Eric E. Mamajek, Melanie Freed

Discovery of Three Very Low Mass Binary Systems: An ...

Considerations for EAGLE from Monte Carlo adaptive optics simulation. *Applied Optics* 49(31): 1-8. Guzman, Dani, de Cos Juez, Francisco Javier, Sanchez Lasheras, Fernando, Myers, Richard & Young, Laura (2010). Deformable mirror model for open-loop adaptive optics using multivariate adaptive regression splines. *OPTICS EXPRESS* 18(7): 6492-6505.

Adaptive optics is a field which is coming into its own with new discoveries occurring almost daily both in astronomy and in applications of AO in applied fields. In an adaptive optics system, the output from a wavefront sensor is used to calculate corrections that actively remove distortions from an image. The applications of adaptive optics in vision science have received considerable impetus from the knowledge developed by astronomers about how to correct images using AO technology. It is expected that developments in adaptive optics will radically change the face of astronomy in the 21st century. These systems will largely overcome the main limitation of ground-based telescopes, namely the severe reduction in image quality caused by turbulence in the Earth's atmosphere. Intended for use at near infrared wavelengths, adaptive optics allow imaging and spectroscopy at the limit of resolution imposed by optical diffraction an advance in astronomer's ability to view the heavens unparalleled since the invention of the telescope. AO is now also entering clinical medicine in the field of ophthalmology and other related fields. This new book presents several hundred current abstracts in the field, each fully indexed, for ease of access and contains a CD ROM for further research.

We present the results of an adaptive optics survey for faint companions among Galactic O-type star systems (with V 8) using the Advanced Electro-Optical System (AEOS) 3.6 m telescope on Haleakala. We surveyed these O-star systems in the I -band, typically being able to detect a companion with a magnitude difference of Δm (sub I)

Principles of Adaptive Optics is a comprehensive guide to adaptive optics systems and components. It covers all the basic principles, analytical tools, and instrumentation hardware included in an adaptive optics system. This single volume resource includes hundreds of references and outlines design and performance analysis of adaptive optics wavefront sensors, controls, correcting optics, and their integrated operation. The book discusses adaptive optics, system analysis and system design, and the major subsystems: wavefront sensors, correcting optics, wavefront reconstructors, and real-time controls. It details the principal equations that govern atmospheric turbulence compensation. The book contains nearly 700 citations that cover a quarter century of research and development. It includes a new section on laser guide stars and their usage. It also includes recently declassified military information on laser guided stars and all the governing equations of wavefront error, imaging system resolution, beam tilt or wander, scintillation, temporal spectra, anisoplanatism, and guide star position.

Leading experts present the latest technology and applications in adaptive optics for vision science Featuring contributions from the foremost researchers in

the field, Adaptive Optics for Vision Science is the first book devoted entirely to providing the fundamentals of adaptive optics along with its practical applications in vision science. The material for this book stems from collaborations fostered by the Center for Adaptive Optics, a consortium of more than thirty universities, government laboratories, and corporations. Although the book is written primarily for researchers in vision science and ophthalmology, the field of adaptive optics has strong roots in astronomy. Researchers in both fields share this technology and, for this reason, the book includes chapters by both astronomers and vision scientists. Following the introduction, chapters are divided into the following sections: * Wavefront Measurement and Correction * Retinal Imaging Applications * Vision Correction Applications * Design Examples Readers will discover the remarkable proliferation of new applications of wavefront-related technologies developed for the human eye. For example, the book explores how wavefront sensors offer the promise of a new generation of vision correction methods that can deal with higher order aberrations beyond defocus and astigmatism, and how adaptive optics can produce images of the living retina with unprecedented resolution. An appendix includes the Optical Society of America's Standards for Reporting Optical Aberrations. A glossary of terms and a symbol table are also included. Adaptive Optics for Vision Science arms engineers, scientists, clinicians, and students with the basic concepts, engineering tools, and techniques needed to master adaptive optics applications in vision science and ophthalmology. Moreover, readers will discover the latest thinking and findings from the leading innovators in the field.

This white paper identifies the main issues and major recommendations for German astronomical research. Their implementation will require initiative from all partners and will allow German astronomers and astrophysicists to continuously play a leading role in their field.

The field of Adaptive Optics (AO) for astronomy has matured in recent years, and diffraction-limited image resolution in the near-infrared is now routinely achieved by ground-based 8 to 10m class telescopes. This book presents the proceedings of the ESO Workshop on Science with Adaptive Optics held in the fall of 2003. The book provides an overview on AO instrumentation, data acquisition and reduction strategies, and covers observations of the sun, solar system objects, circumstellar disks, substellar companions, HII regions, starburst environments, late-type stars, the galactic center, active galaxies, and quasars. The contributions present a vivid picture of the multitude of science topics being addressed by AO in observational astronomy.

Adaptive optics is a powerful new technique used to sharpen telescope images blurred by the Earth's atmosphere. This authoritative book is the first dedicated to the use of adaptive optics in astronomy. Mainly developed for defence applications, the technique of adaptive optics has only recently been introduced in astronomy. Already it has allowed ground-based telescopes to produce images with sharpness rivalling those from the Hubble Space Telescope. The technique is expected to revolutionise the future of ground-based optical astronomy. Written by an international team of experts who have pioneered the development of the field, this timely volume provides both a rigorous introduction to the technique and a comprehensive review of current and future systems. It is set to become the standard reference for graduate students, researchers and optical engineers in astronomy and other areas of science where adaptive optics is finding exciting new applications.

The blossoming of adaptive optical techniques has brought about a revolution in the field of astronomical observation. Coupled with the new generation of large, ground-based telescopes, it allows us to achieve an unprecedented angular resolution in the analysis of faint astronomical sources at optical wavelengths. This book provides the basic concepts of adaptive optics, discusses the possible instrumental strategies and the state-of-the-art technical achievements of this development and presents the key astrophysical programs which will most benefit from it. Over fifteen well-known experts have

contributed to making this volume a comprehensive one, with steady progression as well as full coverage of the various aspects of the field. Students graduating in optical sciences and astrophysics, astronomers, engineers interested in atmospheric turbulence compensation will find this book a reference text on the subject.

Adaptive Optics for Biological Imaging brings together groundbreaking research on the use of adaptive optics for biological imaging. The book builds on prior work in astronomy and vision science. Featuring contributions by leaders in this emerging field, it takes an interdisciplinary approach that makes the subject accessible to nonspecialists who want to use adaptive optics techniques in their own work in biology and bioengineering. Organized into three parts, the book covers principles, methods, and applications of adaptive optics for biological imaging, providing the reader with the following benefits: Gives a general overview of applied optics, including definitions and vocabulary, to lay a foundation for clearer communication across disciplines Explains what kinds of optical aberrations arise in imaging through various biological tissues, and what technology can be used to correct for these aberrations Explores research done with a variety of biological samples and imaging instruments, including wide-field, confocal, and two-photon microscopes Discusses both indirect wavefront sensing, which uses an iterative approach, and direct wavefront sensing, which uses a parallel approach Since the sample is an integral part of the optical system in biological imaging, the field will benefit from participation by biologists and biomedical researchers with expertise in applied optics. This book helps lower the barriers to entry for these researchers. It also guides readers in selecting the approach that works best for their own applications.

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