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Binary Adaptive Optics A Status

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 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 By G LOVE, P DOEL, R MYERS, A PURVIS and R SHARPLES Topics: Science & Technology, Physical Sciences, Astronomy & Astrophysics, Optics

BINARY ADAPTIVE OPTICS - A STATUS-REPORT - CORE
ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS. II. A MULTIPLICITY SURVEY OF B STARS¹ Lewis C. Roberts, Jr. The Boeing Company, Kihei, HI, USA;
lewis.c.roberts@boeing.com and Nils H. Turner and Theo A. ten

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Brummelaar Center for High Angular Resolution Astronomy,
Georgia State University, Mount Wilson, CA, USA;

ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS ...

ALFA Status February 1998. Adaptive optics status. In February 1998 Team ALFA had 5 clear nights with partly excellent seeing conditions. The adaptive optics part of ALFA was again improved. The best result so far was taken on a $m_V = 9.7$ star (T Tau) while the AO system was operated at 200 Hz correcting for 24 modes (18 subapertures). The tip ...

ALFA Current Status - Max Planck Society

Adaptive optics (AO), an optical technique originally implemented in astronomical telescopes, has recently been employed to correct ocular aberrations and improve the resolution for in vivo two

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Adaptive optics two-photon microscopy enables near ...

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

...

Multi-level diffractive phase have the potential to significantly improved the performance of many conventional lens systems. The theory, design and fabrication of these diffractive profiles are described in detail. Basic examples illustrate the potential usefulness, as well as the limitations, of these elements.

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Keywords: Binary optics; Diffractive optical elements.

Binary Optics Technology: The Theory and Design of Multi

...

Image transmission through multimode optical fibers has been an area of immense interests driven by the demand for miniature endoscopes in biomedicine and higher speed and capacity in telecommunications. Conventionally, a complex-valued transmission matrix is obtained experimentally to link the input and output light fields of a multimode fiber for image retrieval, which complicates the ...

OSA | Seeing through multimode fibers with real-valued

...

Two complementary techniques were used to cover a large range of orbital period P : high angular resolution imaging with Adaptive Optics (AO) (binary separation ρ between 0.12" and

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few arcseconds, i.e. $P \cong$ many years), and high resolution visible spectroscopy to study short orbital period ($P \cong$ few hours to few months).

The binarity of Herbig Ae/Be stars observed with Adaptive ...

We observed 15 of the solar-type binaries within 67 pc of the Sun previously observed by the Robo-AO system in the visible, with the PHARO near-infrared camera and the PALM-3000 adaptive optics system on the 5 m Hale telescope. The physical status of the binaries is confirmed through common proper motion and detection of orbital motion. In the process, we detected a new candidate companion to ...

Continued Kinematic and Photometric Investigations of ...

Adaptive optics imaging, which compensates for the image-blurring effects of Earth's turbulent atmosphere, is essential for

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these surveys: e.g., validating exoplanet candidates (Morton11; M14; Law14), detecting and probing the properties of unresolved binary star systems (L7A; Metchev09; Bowler12; Terziev13), and spatially locating and ...

High-efficiency Autonomous Laser Adaptive Optics - arXiv

...

ing adaptive optics (AO). For the most recent description of the AO system, see Johnson et al. (2009). During the course of non-astronomical experiments, binary stars are often observed for calibration and orientation purposes. To this end, a list of calibration binaries was hand-selected by the author

BINARY STARS OBSERVED WITH ADAPTIVE OPTICS AT THE STARFIRE ...

A survey of 30 nearby M6.0-M7.5 dwarfs with $K_s < 12$ mag utilizing the Hokuapa'a adaptive optics system at the Gemini

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North Telescope has discovered 3 new binary systems. All 3 systems have separations between 0.12-0.29 arcsec (3 - 10 AU) with similar mass ratios ($q > 0.8$, $\Delta K_s < 0.7$). This result gives further support to the suggestion that wide ($a > 20$ AU) very low mass ($M_{\text{tot}} < 0.185 M_{\text{sun}}$) binary ...

An Adaptive Optics Survey of M6.0-M7.5 Stars: Discovery of ...

We would like to show you a description here but the site won't allow us.

twitter.com

ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS. III. A FAINT COMPANION SEARCH OF O-STAR SYSTEMS*
Nils H. Turner¹, Theo A. ten Brummelaar², Lewis C. Roberts², Brian D. Mason³, William I. Hartkopf³, and Douglas R. Gies⁴

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ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS ...

An adaptive optics instrument normally used to search for and characterize exoplanets has obtained the sharpest images yet of a double asteroid, as it hurtled past Earth in late May. ... One example is another binary asteroid system named Didymos - the Greek word for “twin”.

VLT's adaptive optics kit resolves near-Earth binary asteroid

To separate the binary stars and distinguish their driving sources, they used Gemini North's NIFS with its adaptive optics system to observe this close binary system in the 1-micrometer infrared ...

Revealing the Complex Outflow Structure of Binary UY ...

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Searching for binary γ dwarfs with the Gemini multi-conjugate adaptive optics system (GeMS) @article{Opitz2016SearchingFB, title={Searching for binary γ dwarfs with the Gemini multi-conjugate adaptive optics system (GeMS)}, author={Daniela Opitz and Chris G. Tinney and Jacqueline K. Faherty and Sarah M. Sweet and Christopher Ryan Gelino and J ...

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