

Binary Adaptive Optics A Status Report Spie Digital Library

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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

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

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

We present higher-order multiplicity results for 60 solar-type spectroscopic binaries based on 0.75 micron imaging data taken by the Robotic Adaptive Optics system (Robo-AO) at the Kitt Peak 2.1m telescope. Our contrast curves show sensitivity of up to ~5 mag at ~1 arcsecond separation. We find tertiary companions for 62% of our binaries overall, but find this fraction is a strong function of ...

[2009.00575] Assessing Spectroscopic-Binary Multiplicity ...

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

ADAPTIVE OPTICS PHOTOMETRY AND ASTROMETRY OF BINARY STARS ...

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 ...

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

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 ...

Binary optics are optical components (e.g., lenses) fabricated using semiconductor manufacturing methods. For an adaptive optics system using binary optics, two important subsystems to be modeled are the binary optic design and the control system. It is advantageous to have two models of the optic

Optical and control modeling for adaptive beam-combining ...

Adaptive optics package designed for astronomical use with a laser guide star tuned to an absorption line of atomic sodium ... Binary adaptive optics: a status report Author(s): ... Multitiered wavefront sensor using binary optics Author(s): ...

Adaptive Optics in Astronomy | (1994) | Publications | Spie

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 ...

For an adaptive optics system there are several areas where this remapping can be applied. Optical system apertures are usually round, while detectors are usually square. By remapping from a round to a square pupil using a binary optics approach, the detector fill factor can be improved. In addition, the spacing of actuators on a deformable mirror

Specialized wavefront sensors for adaptive optics1

Adaptive optics generally apply slight changes to mirrors to account for atmospheric turbulence. These generally require either a mirror to be broken up into smaller mirrors, each with their own ... adaptive-optics. asked ... binary-star x 1. space-telescope ...

Newest 'adaptive-optics' Questions - Astronomy Stack Exchange

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

A survey of 30 nearby M6.0-M7.5 dwarfs with $K_s < 12$ mag utilizing the Hokupa'a adaptive optics system at the Gemini North Telescope has discovered 3 new binary systems.

(PDF) An Adaptive Optics Survey of M6.0-M7.5 Stars ...

We utilize the new Magellan adaptive optics system (MagAO) to image the binary proplyd LV 1 in the Orion Trapezium at $H\alpha$. This is among the first AO results in visible wavelengths. The $H\alpha$ image clearly shows the ionization fronts, the interproplyd shell, and the cometary tails.

High resolution $H\alpha$ images of the binary low-mass proplyd ...

Massive binary star systems like WR 112, as well as supernova explosions, are regarded as sources of dust in the early universe, but the process of dust production and the amount of the ejected dust are still open questions. ... integral-field spectrometers, and world-leading laser guide star adaptive optics systems. Some of the data presented ...

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