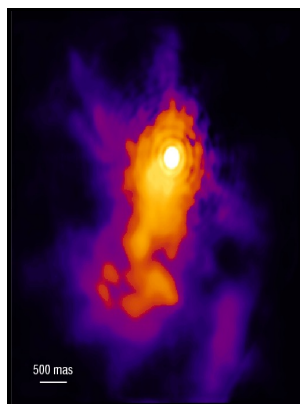


Infrared speckle interferometry

University Microfilms - Infrared speckle interferometry and spectroscopy of Io



Description: -
-Infrared speckle interferometry
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Notes: Thesis (Ph.D.)--University of Arizona, 1980.
This edition was published in 1981



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Tags: #Infrared #Speckle #Interferometry: #A #Sensitive #Technique #for #Physical #Measurements #of #Unseen #Companions #to #Nearby #Stars

Infrared speckle imaging: Data reduction with application to binary stars

It could achieve the full resolution of the ESO 3. A simple model for the origin of speckle in coherent imaging systems is presented.

Speckle Interferometry

Results illustrate seeing limitations and show how the usual position angle ambiguity can be overcome. Note the Boolean sign must be in upper-case. In addition a high sensitivity He cooled InSb detector from the Steward Observatory FTS was used.

Speckle interferometry at the OAN

We found that 722 of our measured separations are smaller than 1 arcsec. US Naval Observatory, Washington, 1997.

The application of infrared speckle interferometry to the imaging of remote galaxies and AGN

We estimated a mean error in separation of 16 mas and 1. Each scan is fourier transformed, and the moduli squared of many such transforms are coadded.

OSA

Observing with the maximum resolution mode meant that the adopted slit width and step as well as a fast scanning rate allowed very compact objects to be measured. A large number of evolved stars were observed.

The application of infrared speckle interferometry to the imaging of remote galaxies and AGN

Infrared speckle interferometry and spectroscopy of Io Observations of a series of mutual events of the Galilean satellites occurring in early 1991 are providing high resolution information concerning the volcanic hot spots on Jupiter's moon Io. The loss could be eliminated with optics optimized for this application.

Speckle Interferometry

Among these objects, we have been interested in performing a follow-up observation of new double stars discovered by Hipparcos.

Infrared speckle interferometry of eleven binaries using a bispectral analysis

Accurate magnitude differences, separations, and position angles have been determined for all the resolved binaries. Letters , 312, L27, 1987.

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