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The impact of turbulence on the imaging process is discussed both for single telescopes and for interferometers.

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This carefully written book is intended to provide a solid understanding of the principles of stellar interferometry to students starting an astronomical research project in this field or to develop instruments and to astronomers using interferometry but who are not interferometrists per se. Illustrated by excellent drawings and calculated graphs

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Principles of Stellar Interferometry | Andreas Glindemann

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basic principles behind
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should be familiar to
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of light as first
observed by Thomas
Young in 1803. This
result is widely known

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through Young's 'two-slit experiment', although two-slits were not used in the original 1803 work. 2.1.1.

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We report on the successful implementation of a stellar intensity interferometry system developed for the four VERITAS imaging atmospheric-

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Cherenkov telescopes.
The system was used
to measure the angular
diameter of the two
sub-mas stars β
Canis Majoris and
 ϵ Orionis with
a precision better than
5%.

Demonstration of stellar intensity interferometry with the ...

Principles of
interferometry 5 slits,
by multiplying them

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together

electronically or, in the case of optical systems, by using a Michelson or Fizeau interferometer system to combine the beams.

If we then add the fringe patterns over different parts of the source, we obtain the response of the interferometer R as $R = \int I(\theta) e^{ikB:(s+\theta)d} d\theta$

Principles of interferometry

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In optical astronomy, interferometry is used to combine signals from two or more telescopes to obtain measurements with higher resolution than could be obtained with either telescopes individually.

Astronomical optical interferometry - Wikipedia

Here I review the current state of the field of optical stellar

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interferometry,
concentrating on
ground-based work,
although a brief report
of space interferometry
missions is included.

We pause both to
reflect on decades of
immense progress in
the field as well as to
prepare for a new
generation of large
interferometers just
now being
commissioned (most
notably, the CHARA,
Keck and VLT ...

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Optical interferometry in astronomy - NASA/ADS

A proper understanding of stellar physics is important for a wide range of astronomical fields and yet they are often seen as point sources of light due to their great distances from Earth. Here, we illustrate the potential of a reborn technique

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to make new
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An astronomical
interferometer is an
array of separate
telescopes, mirror
segments, or radio
telescope antennas
that work together as a
single telescope to
provide higher

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resolution images of astronomical objects such as stars, nebulae and galaxies by means of interferometry.

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Astronomical interferometer - Wikipedia

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More information: A. U.
Abeysekara et al.
Demonstration of
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telescopes, Nature
Astronomy (2020). DOI:
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of long-baseline stellar
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emphasizing the
physics and
engineering aspects of
stellar interferometers.

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Interferometry:
Lawson ...**

Scientists in the
VERITAS Collaboration
have measured the
angular diameter of

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stars using Stellar
Interferometry for the
first time in nearly 50
years, and
demonstrated both
improvements to the
sensitivity of the
technique and its
scalability using digital
electronics. Led by
astronomers from the
Center for Astrophysics
| Harvard &
Smithsonian and the
University of Utah,
VERITAS

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Gamma-ray Scientists Help Bring Distant Stars into Focus ...

The imaging process in stellar interferometers is explained starting from first principles on wave propagation and diffraction. Wave propagation through turbulence is described in detail using Kolmogorov statistics. The impact of turbulence on the

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imaging process is discussed both for single telescopes and for interferometers.

Principles of Stellar Interferometry by Andreas Glindemann

Jonathan Davis is a contributing author to "Demonstration of Stellar Intensity Interferometry with the Four VERITAS Telescopes," published July 20 in Nature Astronomy and the

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lead creator of software that helps scientists know what stars are useful to study using the method. Stellar intensity interferometry (SII) allows astronomers to use a ...

Grad student helps combine old technique, modern tech to ...

Scientists in the VERITAS Collaboration

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have measured the angular diameter of stars using Stellar Intensity Interferometry for the first time in nearly 50 years, and demonstrated both improvements to the sensitivity of the technique and its scalability using digital electronics.. Led by astronomers from the Center for Astrophysics | Harvard & Smithsonian and the

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University of Utah,
VERITAS ...

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Gamma-ray Scientists "Dust Off" Intensity Interferometry ...

The first telescopes to perform stellar measurements using intensity interferometry were the Narrabri telescopes in the 1970s. "Narrabri measured 32 stars in the southern hemisphere, and to

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significantly improve
upon that result
required a large leap in
technology,” said
Wystan Benbow,
director of VERITAS.

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