## **SAIP2010**



Contribution ID: 74 Type: **Presentation** 

## The Beam Quality Factor of Aberrated Gaussian Laser Beams

A model is used to calculate the beam quality factor of a laser beam from Zernike coefficients. It is tested by programming aberration coefficients on a laser beam and measuring the beam quality using a Shack-Hartmann wavefront sensor. The two show excellent agreement.

Primary author: Mr MAFUSIRE, Cosmas (CSIR National Laser Centre)

Co-author: Prof. FORBES, Andrew (CSIR National Laser Center)

Presenter: Mr MAFUSIRE, Cosmas (CSIR National Laser Centre)

Track Classification: Track C - Lasers, Optics and Spectroscopy