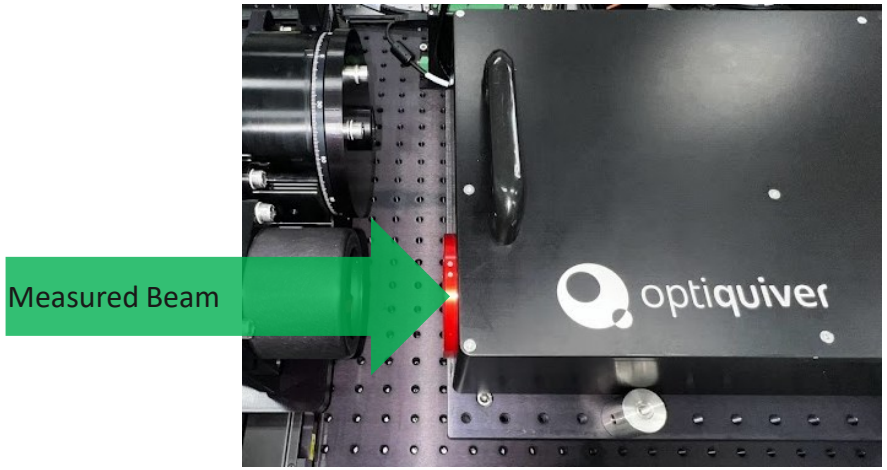
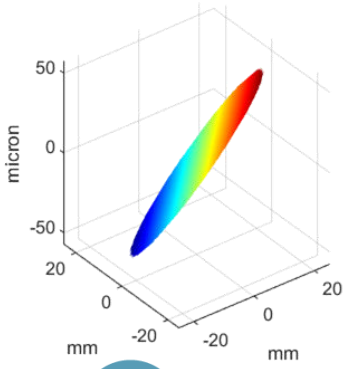
OptiQuiver App Note: Beam Measurement with Tilt

- Test:
  - Directly measure a 45 mm collimated beam for Wavefront and Tilt, such as a lens assembly or parabolic mirror system
- Result:
  - **Easy setup, live feedback for lens/mirror alignment, no compression optics required**
  - Wavefront PV = 114.69 um
  - Wavefront PV (tilt removed) = 0.130 um
  - X Tilt = -0.4570 degrees
  - Y Tilt = -0.1867 degrees



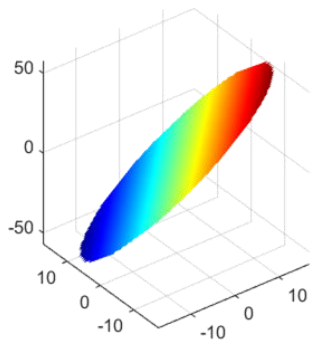
Measured Wavefront

PV = 114.693micron
RMS = 25.206 micron



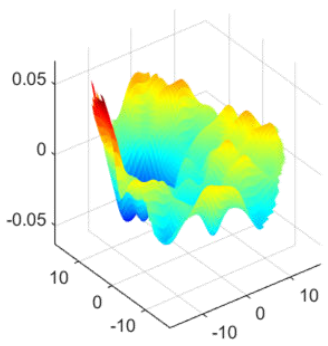
Zernike Surface

PV = 114.705 micron
RMS = 25.206 micron

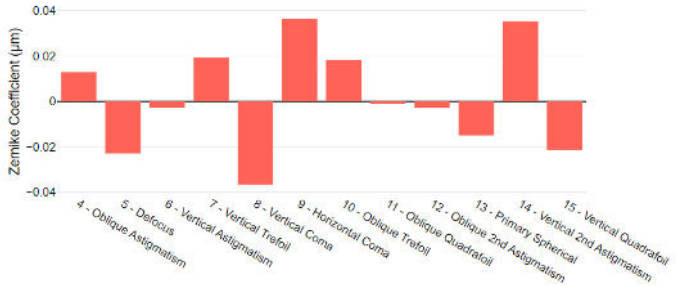


Measured Wavefront & Tilt Removed

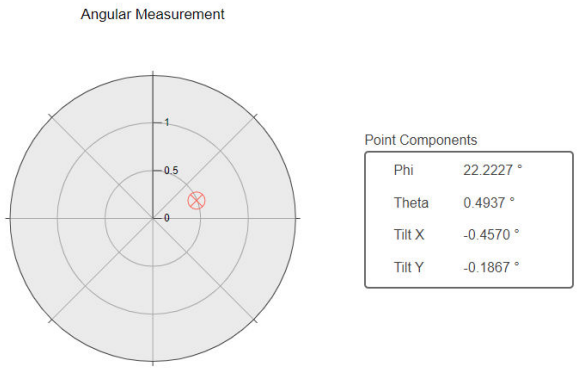
PV = 0.13 micron
RMS = 0.017 micron



Zernike Decomposition



Beam Tilt



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