

OPTI 415L / 515L - Optical Fabrication and Testing Laboratory

Lab #3 – Wavefront Quality

Purpose:

The purpose of this lab is to use a phase shifting Fizeau interferometer and to use the same setup as in the previous lab to look at the wavefront produced by the images containing astigmatism and coma.

The idea is to see what wavefront shape produces an image of the shape seen in the last lab.

Here we want to see how focus and tilt affects the shape and look of the wavefront containing astigmatism and coma. The astigmatic wavefront is particularly interesting going through focus