

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

Lab #2 – Image Quality

The objective of this lab is to observe and characterize astigmatism and coma at the image plane. Astigmatism is setup using a tilted concave spherical mirror while coma is setup by shearing matched positive and negative lenses. In both cases, observe the spots through focus and save pictures. A Matlab code or commercial software like ImageJ could be used to take profiles of the spots. Replicate the experiment setup using Zemax and compare results.