

Numerical Simulation of Laser Propagation through Turbulent Atmosphere Using Zernike Polynomials

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Abstract : In this article, propagation of a laser beam through turbulent atmosphere is evaluated. At first the laser beam is simulated and then turbulent atmosphere will be simulated by using Zernike polynomials. Some parameter like intensity, PSF will be measured for four wavelengths in different C_n^2 .

Keywords : laser beam propagation, phase screen, turbulent atmosphere, Zernike polynomials

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