

Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 8-12 July 2013

The decay of orbital angular momentum entanglement in atmospheric turbulence

Roux FS

CSIR, National Laser Centre, Pretoria, 0001

Corresponding email: FSroux@csir.co.za

Abstract

This presentation focuses on the decay of orbital angular momentum entanglement in atmospheric turbulence. In the paper the author discusses classical scintillation, measure of entanglement, single phase screen approximation, infinitesimal propagation equation, robust states numerical simulations and lastly experimental results.