



Contribution ID: 91

Type: Poster

Numerical simulation of decoherence of quantum entanglement through atmospheric turbulences

A numerical procedure is proposed to study the decoherence of the entanglement between a pair of qubits due to atmospheric turbulence. The qubits are photons entangled in terms orbital angular momentum modes and the turbulent atmosphere is modeled with the von Karman-Tatarski spectrum.

Primary author: Mr HAMADOU IBRAHIM, Alpha (CSIR, National Laser Centre)

Co-author: Dr ROUX, Filippus (CSIR, National Laser Centre)

Presenter: Mr HAMADOU IBRAHIM, Alpha (CSIR, National Laser Centre)

Track Classification: Track C - Lasers, Optics and Spectroscopy