

Transmission of a Mixed State Via Continuous-Variable Teleportation

Miguel Orszag & Jeronimo R. Maze

Abstract

We optimize the transmission of quantum features in light fields, such as squeezing and antibunching, using continuous-variable teleportation and tuning the variable gain in Bob's output when Alice receives a mixed state. We study the degradation of the quadrature fluctuations, as well as of the second-order correlation function, due to the two-cat mixture.