

1125-81-1583

**John C Schotland\*** ([schotland@umich.edu](mailto:schotland@umich.edu)). *An Inverse Problem in Quantum Optics.*

We consider the scattering of entangled two-photon states in deterministic and random media. We investigate the influence of the entanglement of the incident field on the entanglement of the scattered field. A related inverse problem is described. (Received September 18, 2016)