

Abstract Submitted
for the MAR13 Meeting of
The American Physical Society

Measurement-Induced Non-locality in an n -partite quantum state

PRAMOD JOAG, Professor, Department of Physics, University of Pune, ALI HAS-SAN, Associate Professor Department of Physics, University of Amran — We generalize the concept of measurement-induced non-locality (MiN) to n -partite quantum states. We get exact analytical expressions for MiN in an n -partite pure and n -qubit mixed state. We obtain the conditions under which MiN equals geometric quantum discord in an n -partite pure state and an n -qubit mixed state. We obtain an exact (computable) relation between MiN and entanglement (concurrence) for a bipartite pure state.

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Date submitted: 29 Oct 2012

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