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Comparisons of experimental entanglement witnesses and measures for a two-qubit system¹ K.A. WALSH, A.J. SCHAUF, J.S. LESNIAK, E.C. BEHRMAN, Department of Physics, Wichita State University, J.E. STECK, Department of Aerospace Engineering, Wichita State University, S.R. SKINNER, Department of Electrical and Computer Engineering, Wichita State University — A single operator cannot measure the entanglement for a general state; however, knowledge of the density matrix enables computation of any universal entanglement measure. Several entanglement witnesses have been proposed for two-qubit systems. We compare these to published measures.

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