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Title:	Extremal extensions of entanglement witnesses: Finding new bound entangled states				
Authors:	Sengupta, R. (/jspui/browse?type=author&value=Sengupta%2C+R.) Arvind (/jspui/browse?type=author&value=Arvind)				
Keywords:	Bound entangled state				
	Choi map				
	Entangled state				
	Entanglement witness				
	Extremal				
	Partial transpose				
Issue Date:	2011				
Publisher:	American Physical Society				
Citation:	Physical Review A - Atomic, Molecular, and Optical Physics, 84 (3), art. no. 032328				
Abstract:	In this paper, we discuss extremal extensions of entanglement witnesses based on Choi's map. The constructions are based on a generalization of the Choi map, from which we construct entanglement witnesses. These extremal extensions are powerful in terms of their capacity to detect entanglement of positive under partial transpose (PPT) entangled states and lead to unearthing of entanglement of new PPT states. We also use the Cholesky-like decomposition to construct entangled states which are revealed by these extremal entanglement witnesses.				
URI:	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.84.032328 (https://journals.aps.org/pra/abstract/10.1103/PhysRevA.84.032328)				
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