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**Steering in spin tomographic probability representation.** (English) Zbl 1400.81030  
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Summary: The steering property known for two-qubit state in terms of specific inequalities for the correlation function is translated for the state of qudit with the spin  $j = 3/2$ . Since most steering detection inequalities are based on the correlation functions we introduce analogs of such functions for the single qudit systems. The tomographic probability representation for the qudit states is applied. The connection between the correlation function in the two-qubit system and the single qudit is presented in an integral form with an intertwining kernel calculated explicitly in tomographic probability terms.

**MSC:**

**81P40** Quantum coherence, entanglement, quantum correlations  
**82B10** Quantum equilibrium statistical mechanics (general)

Cited in 1 Document

**Keywords:**

steering; tomography; qudit system; correlation

**Full Text:** [DOI](#)

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