

Faculty Profile



Name: Dr. Kapil K. Sharma

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Research areas of interest: Foundation of Quantum mechanics, Quantum Information Theory, Quantum Algorithms and Machine learning, Application of Non-Hermitian Quantum Mechanics in Computation.

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Publications (best 5):

- [1] **Kapil K. Sharma**, S. K. Awasthi, S. N. Pandey, Entanglement sudden death and birth in qubit-qutrit systems under Dzyaloshinskii-Moriya interaction, *Quant. Info. Proc.* **12**, 3437 (2013).
- [2] **Kapil K. Sharma**, S. N. Pandey, Entanglement dynamics in two parameter qubit-qutrit states under Dzyaloshinskii-Moriya interaction, *Quant. Info. Proc.* **13**, 2017 (2014).
- [3] **Kapil K. Sharma**, S. N. Pandey, Influence of Dzyaloshinskii-Moriya interaction on quantum correlations in two qubit Werner states and MEMS, *Quant. Info. Proc.* **14**, 1361 (2015).
- [4] **Kapil K. Sharma**, S. N. Pandey, Dzyaloshinskii-Moriya interaction as an agent to free the bound entangled states, *Quant. Info. Proc.* **15**, 1539 (2016).
- [5] **Kapil K. Sharma**, Vladimir P. Gerdt, Entanglement sudden death and birth effects in two qubits maximally entangled mixed states under quantum channels, *Int. J. Theor. Phys.*, **59**, 403 (2020).