

List of Publications arising from the thesis

Journal

1. *Robustness of nonGaussian entanglement against noisy amplifier and attenuator environments.* **K. K. Sabapathy**, J. S. Ivan, and R. Simon. *Physical Review Letters*, **107**, 130501 (2011).
2. *Nonclassicality breaking is the same as entanglement breaking for bosonic Gaussian channels.* J. S. Ivan, **K. K. Sabapathy**, and R. Simon. *Phys. Rev. A*, **88**, 032302 (2013).
3. J. S. Ivan, **K. K. Sabapathy**, and R. Simon. *Operator-sum Representation for Bosonic Gaussian Channels.* *Physical Review A*, **84**, 042311 (2011).

Others (communicated)

1. *Quantum discord plays no distinguished role in characterization of complete positivity: Robustness of the traditional scheme.* **K. K. Sabapathy**, J. S. Ivan, S. Ghosh, and R. Simon. [arXiv:1304.4857](https://arxiv.org/abs/1304.4857) [quant-ph].
2. *Quantum discord for two-qubit X-states: A comprehensive approach inspired by classical polarization optics .* **K. K. Sabapathy** and R. Simon. [arXiv:1311.0210](https://arxiv.org/abs/1311.0210) [quant-ph].

