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Quantum Metrology

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Abstract

Estimation of unknown parameters of a system is an essential task for almost all branches of science and technology. In this talk, I will review the basic ideas of classical estimation theory. Then I generalize this concept to quantum world. Fisher information plays an important role in both classical and quantum estimation theory. I consider the continuity of quantum Fisher information and show how this property gives new insights about quantum estimation theory.

References

- [1] V. Giovannetti, S. Lloyd, and L. Maccone, Phys. Rev. Lett. 96, 010401(2006).
- [2] A. T. Rezakhani and S. Alipour, arXiv:1507.01736.