

Uncertainty Relations in Terms of Fisher Information

LUO Shun-Long

Institute of Applied Mathematics, Academy of Mathematics and System Sciences, The Chinese Academy of Sciences, Beijing 100080, China
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Abstract: By virtue of the well-known concept of Fisher information in the theory of statistical inference, we obtain an inequality chain which generalizes and refines the conventional Heisenberg uncertainty relations.

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Key words: Fisher information, uncertainty relations, Cramér-Rao inequality, parameter estimation, quantum measurement

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