



Contribution ID: 670

Type: **Poster**

Estimation of quantum state and parameters given past and future information

Thursday 15 December 2022 18:45 (15 minutes)

Our work considers the problem of dual quantum state-parameter smoothing, while the probability density distribution of the unknown parameters can be either static or dynamical. Based on Bayes' theorem, general formulas for dual quantum filtering and smoothing are given.

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Session Classification: Poster session

Track Classification: AIP Congress: AIP: Quantum Science and Technology