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Homodyne measurement with a Schrödinger cat state as a local oscillator

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We present a new approach to analysing homodyne measurement using Schrödinger-cat states as local-oscillators and give the characteristics of this type of measurement for various different input states.

Author: LUND, Austin

Co-author: Dr COMBES, Joshua (University of Colorado Boulder)

Presenter: LUND, Austin

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