

State tomography and Persistent coherence of magnetization

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We have developed two spectroscopic methods: Magnetization State Tomography, which measures the Wigner function of magnetization fluctuations, and Magnetization Parametric Projection Measurement, which selectively amplifies the phase information of magnetization. As applications of these methods, we introduce the realization of magnetization squeezing, the direct measurement of magnetization parametric oscillation, and the discovery of hidden coherence in magnetization.

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