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Quantum Spin Dynamics in Spin-1 BEC COREY GERVING, THAI HOANG, BEN LAND, MARTIN ANQUEZ, CHRIS HAMLEY, MICHAEL CHAPMAN, Georgia Institute of Technology — Current study in quantum dynamical evolution of complex systems investigates quantum many-body systems characterized by fluctuations and quantum correlations. Advances in cold atom physics have provided new tools for exploring important topics in this area including atomic squeezed states and non-equilibrium dynamics of many-body quantum systems. Here, we study quantum spin dynamics of a spin-1 condensate.

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