

Abstract for an Invited Paper
for the MAR10 Meeting of
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Quantum science with spin impurities in diamond

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We will describe our recent experiments involving manipulating individual electronic and nuclear spins associated with Nitrogen Vacancy color centers in diamond. Current efforts towards realization of quantum computers operating at room temperature, quantum optical networks and nanoscale magnetic sensors will be discussed.

¹In collaboration with Mikhail Lukin, Harvard Univ.