

Joint Quantum Information Science Seminar

Thursday, February 7, 2019
BRWN 4102 at 11:00 am

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Assembly of Ultracold Molecules with Optical Tweezers

The large electric dipole moment of ultracold molecules make them exciting candidates for both simulating many-body physics, and as a qubit for quantum computation. I will present results of the deterministic assembly of a single molecule from two ultracold atoms using optical tweezers. A single Na and Cs atom are individually trapped and cooled in reconfigurable optical tweezers, and then merged together and photoassociated into an ultracold molecule.