Progress towards trapping of atomic hydrogen isotopes ISAAC CHAVEZ, ADAM LIBSON, TOM MAZUR, JULIA MAJORS, MARK RAIZEN, University of Texas at Austin — Using a series of pulsed electromagnetic coils (atomic coilgun) we can stop supersonic beams of paramagnetic atoms and molecules. We will employ the coilgun method to stop and trap supersonic beams of hydrogen isotopes. The slowed atoms will be trapped in a quadrupole magnetic trap where single-photon atomic cooling will be applied. Further applications will be discussed.

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