

MAR10-2010-020342

Abstract for an Invited Paper
for the MAR10 Meeting of
the American Physical Society

Ultracold polar molecules

DEBORAH JIN, University of Colorado/JILA

I will discuss recent experiments at JILA exploring an ultracold gas of fermionic polar molecules. We create a high phase-space-density gas of ground-state KRb molecules and study chemical reactions in a regime where quantum statistics, single scattering partial waves, and quantum threshold laws play dominant roles.