

Abstract Submitted
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Collisions and atom loss in ultracold, strongly interacting Na-Li mixtures JAE H. CHOI, CALEB A. CHRISTENSEN, GYU-BOONG JO, YE-RYOUNG LEE, TOUT WANG, TONY H. KIM, DAVID E. PRITCHARD, WOLFGANG KETTERLE, MIT-Harvard Center for Ultracold Atoms — We report on our progress in the production of ultracold heteronuclear molecules and in the studies of strongly interacting Bose-Fermi mixtures. Ultracold gases of ${}^6\text{Li}$ and ${}^{23}\text{Na}$ in their lowest hyperfine states are prepared in an optical dipole trap near the heteronuclear Feshbach resonance at 796 G, where interesting phenomena such as heteronuclear molecule formation and phase separation could be explored. We present results on ${}^6\text{Li}$ - ${}^{23}\text{Na}$ collisions and atom losses in the system.

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