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Strongly Interacting Fermi and Bose-Fermi Gases YE-RYOUNG LEE, JAE CHOI, CALEB CHRISTENSEN, GYU-BOONG JO, TOUT WANG, WOLFGANG KETTERLE, DAVID PRITCHARD, MIT — We present our recent progress on the study ultracold gases of ^{6}Li and ^{23}Na near homonuclear and heteronuclear Feshbach resonances. We discuss new experimental and theoretical developments on itinerant ferromagnetism in a Fermi gas of ultracold atoms [1]. We also report on ultracold gases of ^{6}Li and ^{23}Na, including fermionic LiNa molecules.

[1] G.-B. Jo, Y.-R. Lee, J.-H. Choi, C.A. Christensen, T.H. Kim, J.H. Thywissen, D.E. Pritchard, and W. Ketterle, Observation of itinerant ferromagnetism in a strongly interacting Fermi gas of ultracold atoms, Science 325, 1521 (2009).

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