

Abstract Submitted  
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**Towards ultracold mixtures of lithium and strontium atoms** XIAOBIN MA, ZHUXIONG YE, LIYANG XIE, XIANGLIANG LI, State Key Laboratory of Low Dimensional Quantum Physics, Department of Physics, Tsinghua University, LI YOU, MENG KHOON TEY, State Key Laboratory of Low Dimensional Quantum Physics, Department of Physics, Tsinghua University; Collaborative Innovation Center of Quantum Matter — Both lithium and strontium come with bosonic and fermionic isotopes, which will enable many possibilities for rich inter-species interaction dominated mixture physics, and facilitate systematic investigations of impurity and disorder related many body quantum models. Progress towards a new experimental setup aimed at realizing degenerate mixtures of lithium and strontium atoms will be presented.

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