

Abstract Submitted
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Improving the formation of $^{23}\text{Na}^{40}\text{K}$ molecules towards degeneracy ANDREAS SCHINDEWOLF, MARCEL DUDA, ROMAN BAUSE, XING-YAN CHEN, AKIRA KAMIJO, RENHAO TAO, IMMANUEL BLOCH¹, XIN-YU LUO, Max Planck Institute of Quantum Optics and Munich Center for Quantum Science and Technology — Recently L. De Marco et al. demonstrated the formation of degenerate samples of dipolar KRb molecules [1]. Inspired by this achievement we investigated molecule formation in a double-degenerate mixture of ^{23}Na and ^{40}K atoms. By switching from RF association to a magnetic-field sweep over a Feshbach resonance, we can now convert 50% [1] L. De Marco et al., Science 363, 853 (2019).

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