

Ultracold ground-state KCs molecules

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We report on our endeavor to create quantum-degenerate KCs ground-state molecules [1]. Using the well-established indirect molecule-formation scheme, we produce a few thousand bosonic KCs molecules via STIRAP at temperatures around 1 microKelvin. We details some of the intricacies and give a brief outlook on the future plans.

References

[1] Spectroscopy and Ground-State Transfer of Ultracold Bosonic $^{39}\text{K}^{133}\text{Cs}$ Molecules, Krzysztof P. Ziemarski, Charly Beulenkamp, Yi Zeng, Manuele Landini, Hanns-Christoph Nägerl, preprint at arxiv.org/abs/2505.21207