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A new Na-K apparatus for simulating quantum many-body phenomena JAN KILINC, LILO HOECKER, ROHIT PRASAD BHATT, FRED JENDRZEJEWSKI, Kirchhoff-Institute for Physics, Heidelberg University — Ultracold atomic gases allow a precise control over experimental parameters enabling the simulation of complicated physical processes in nature. Quantum mixtures expand these horizons by covering an even greater range of many-body phenomena. In this poster, we present the new Na-K experiment at Heidelberg, which we are setting up as a platform to study problems in High Energy Physics (dynamical gauge fields), Condensed Matter Physics (Kondo effect) and Quantum Thermodynamics (quantum heat engines).

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☐ Prefer Oral Session
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