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Efimov physics in an ultracold Bose-Fermi gas of ^{40}K and ^{87}Rb atoms[1] MING-GUANG HU, RUTH BLOOM, TYLER CUMBY, GEORGE KOTULA, DEBORAH JIN, JILA, NIST and University of Colorado, Boulder, Colorado 80309-0440, USA and Department of Physics, University of Colorado, Boulder, Colorado 80309-04 — We present measurements of Efimov physics in an ultracold Bose-Fermi gas of $^{40}K$and ^{87}Rb atoms near an interspecies Feshbach resonance. In particular, we measure loss rate coefficients for the trapped gas and find a resonance in the inelastic collisions of Feshbach molecules with ^{87}Rb atoms. However, we do not observe any E?mov-related resonances in the rates of inelastic collisions between three atoms.

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