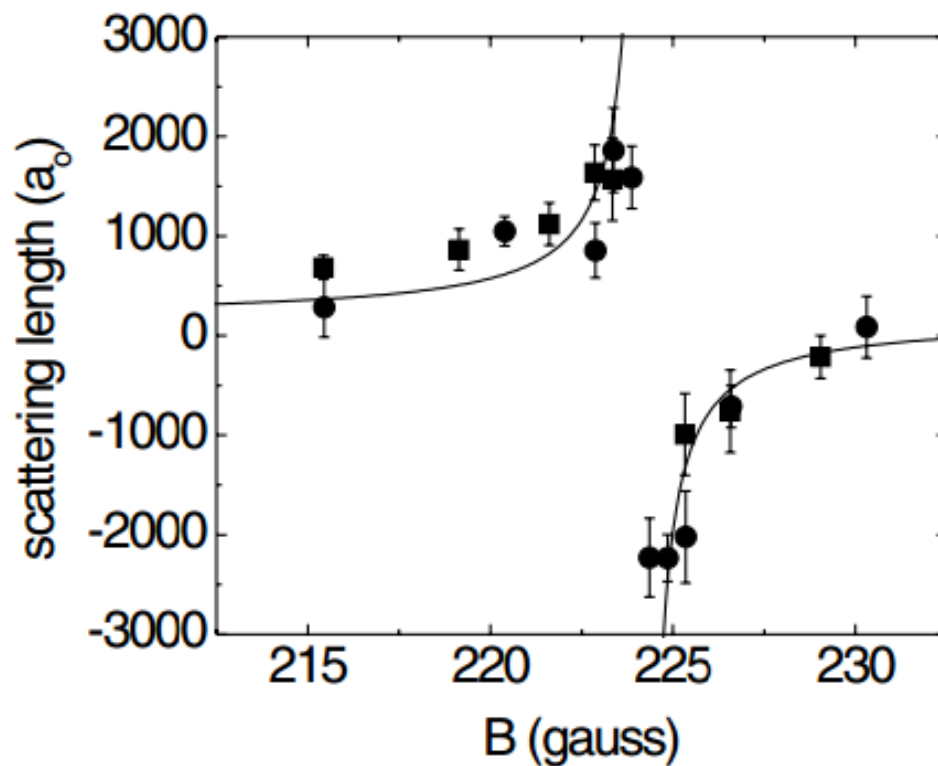


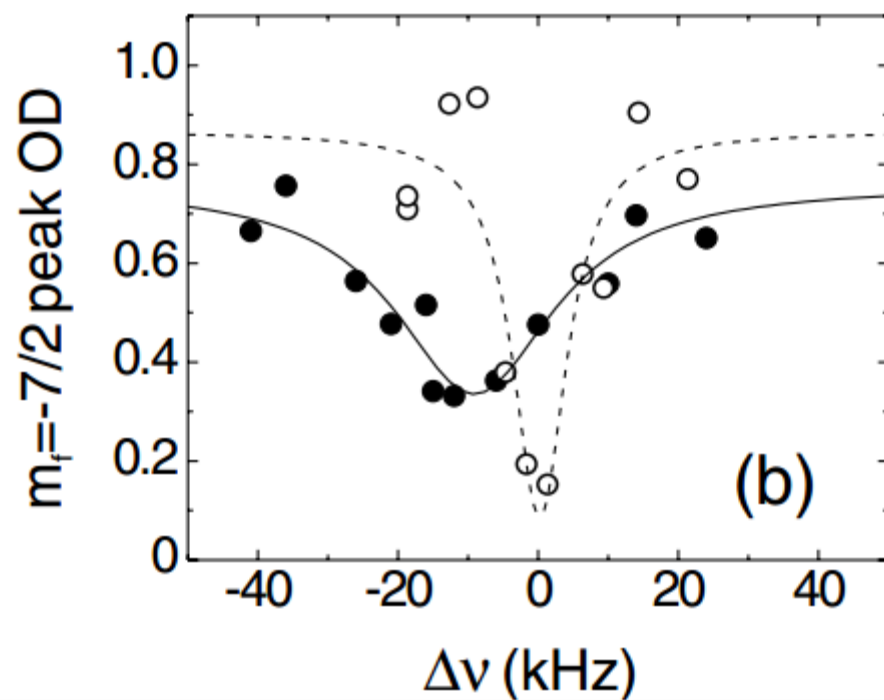
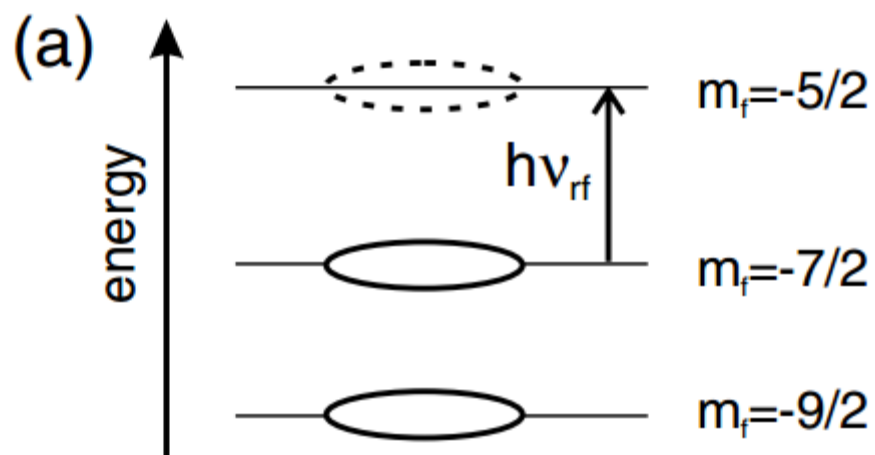
Measurement of Positive and Negative Scattering Lengths in a Fermi Gas of Atoms

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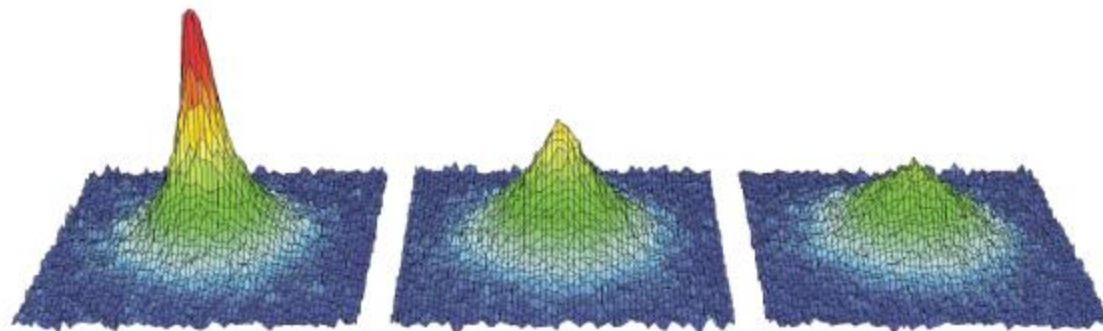


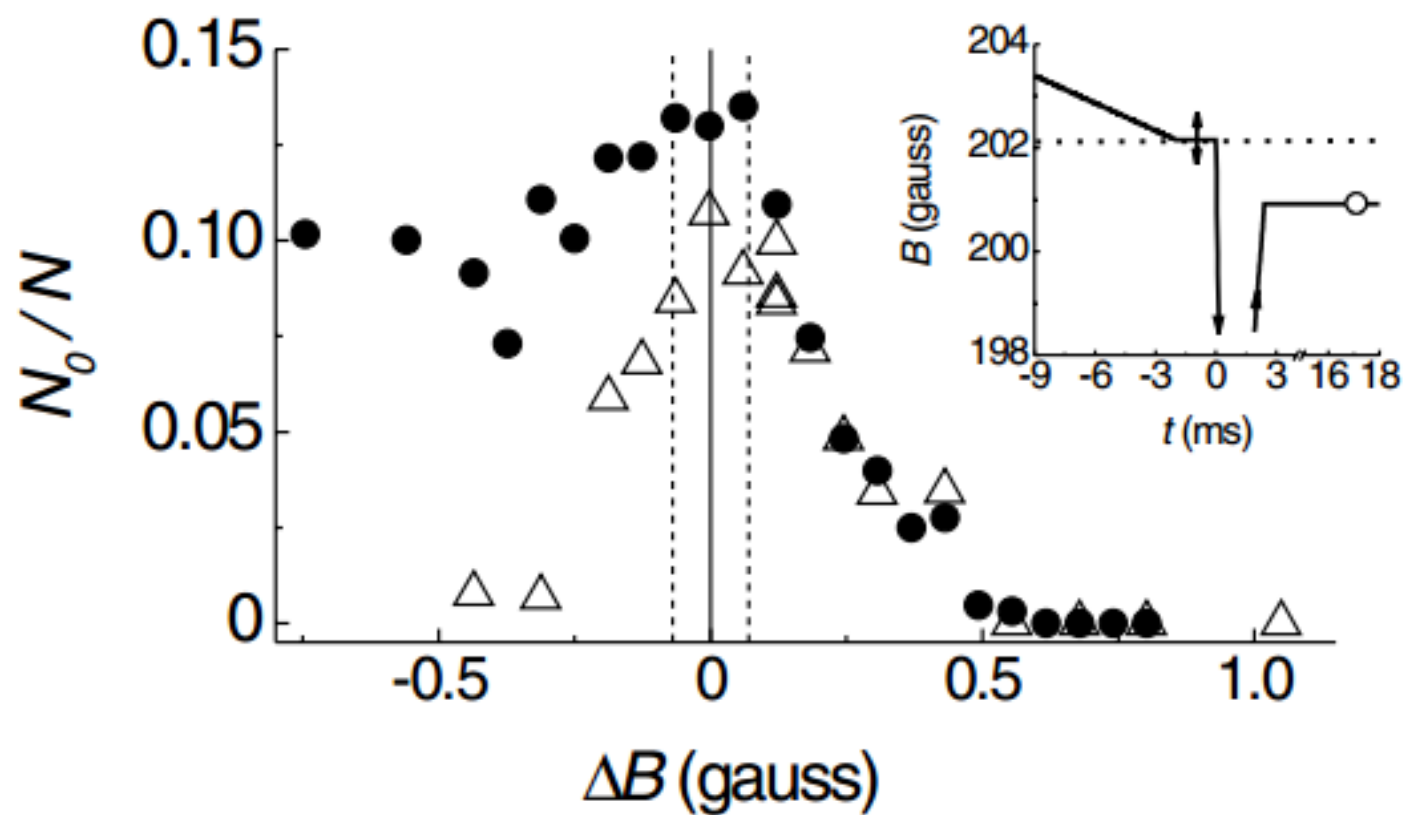
Observation of Resonance Condensation of Fermionic Atom Pairs

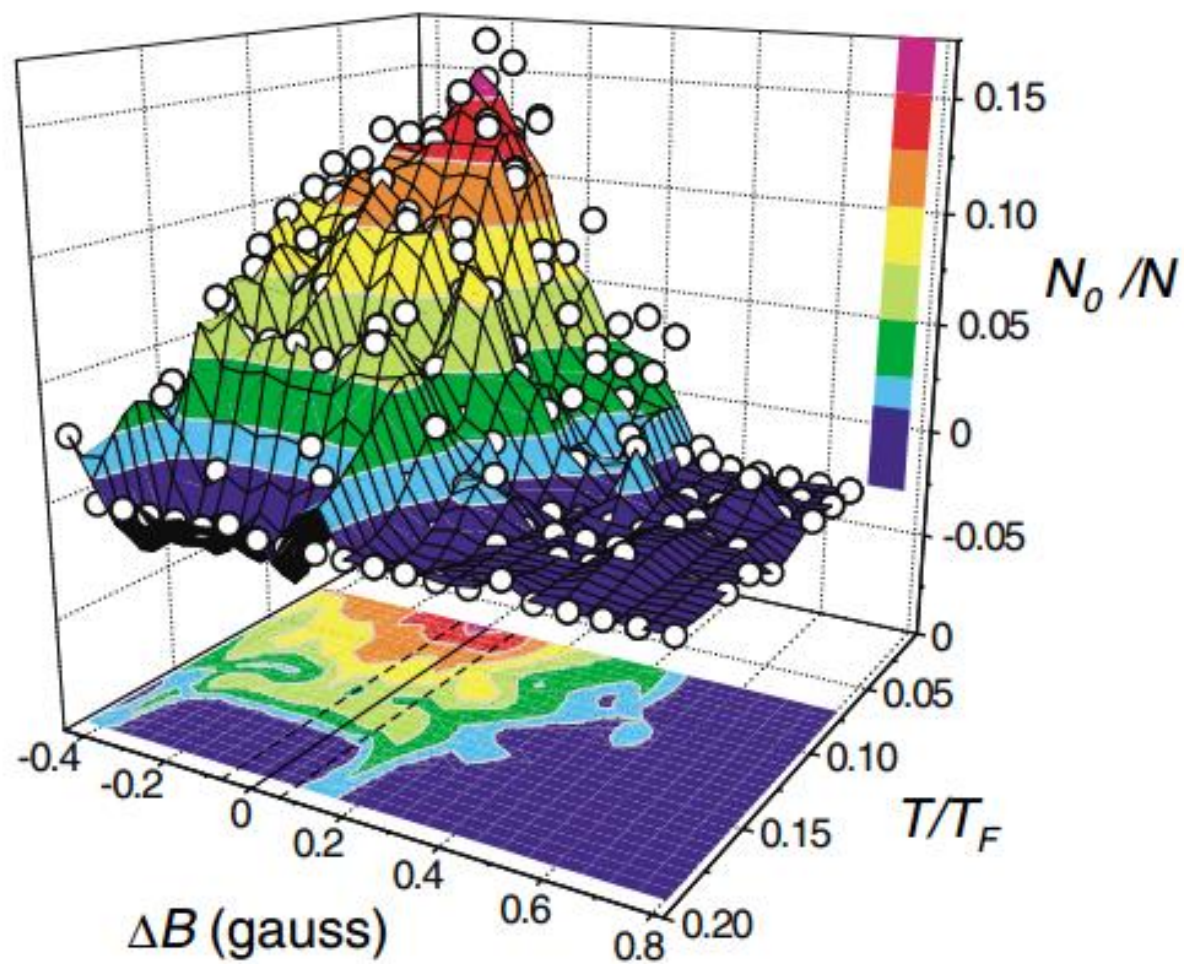
C. A. Regal, M. Greiner, and D. S. Jin*

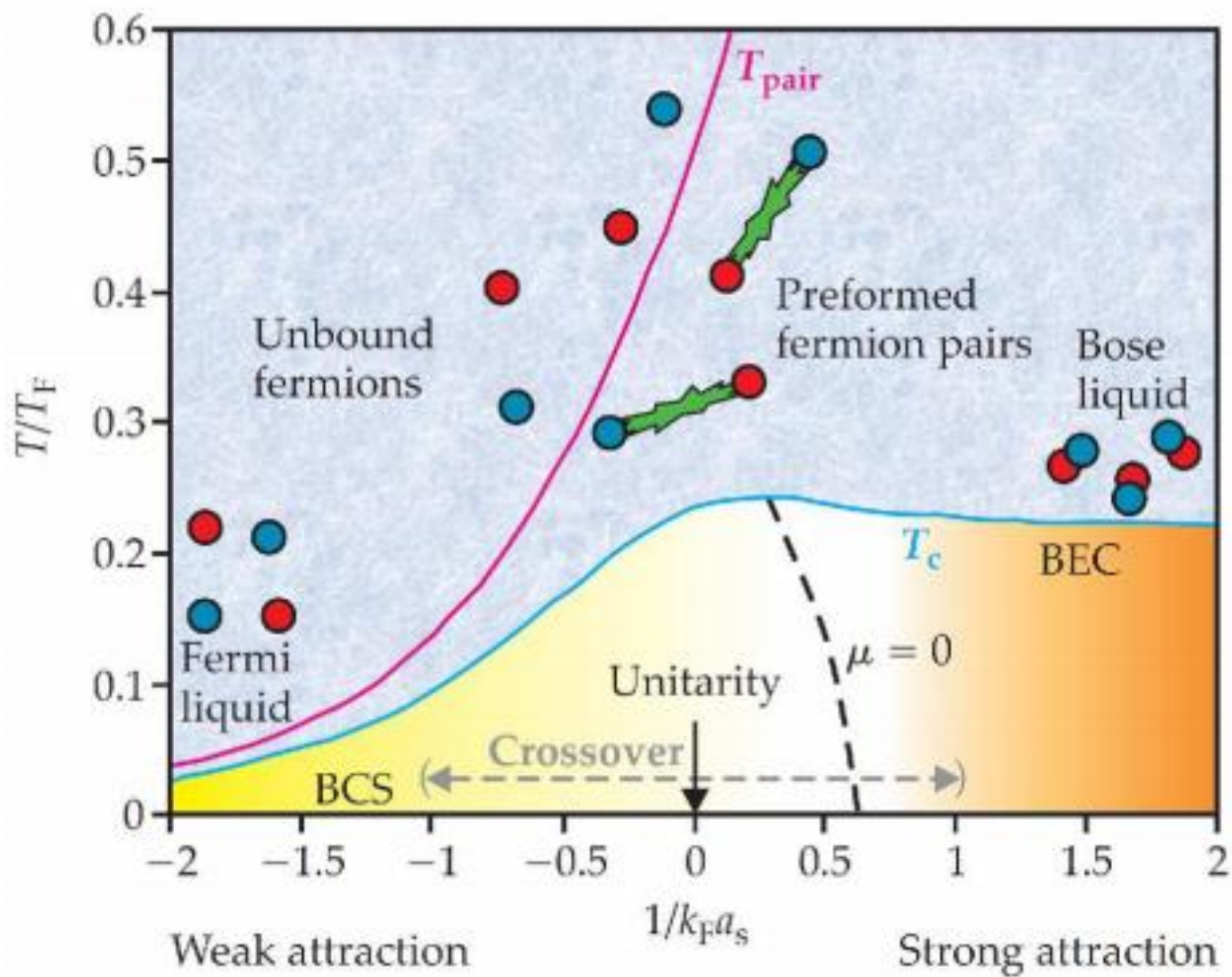
*JILA, National Institute of Standards and Technology and University of Colorado, and Department of Physics,
University of Colorado, Boulder, Colorado 80309-0440, USA*

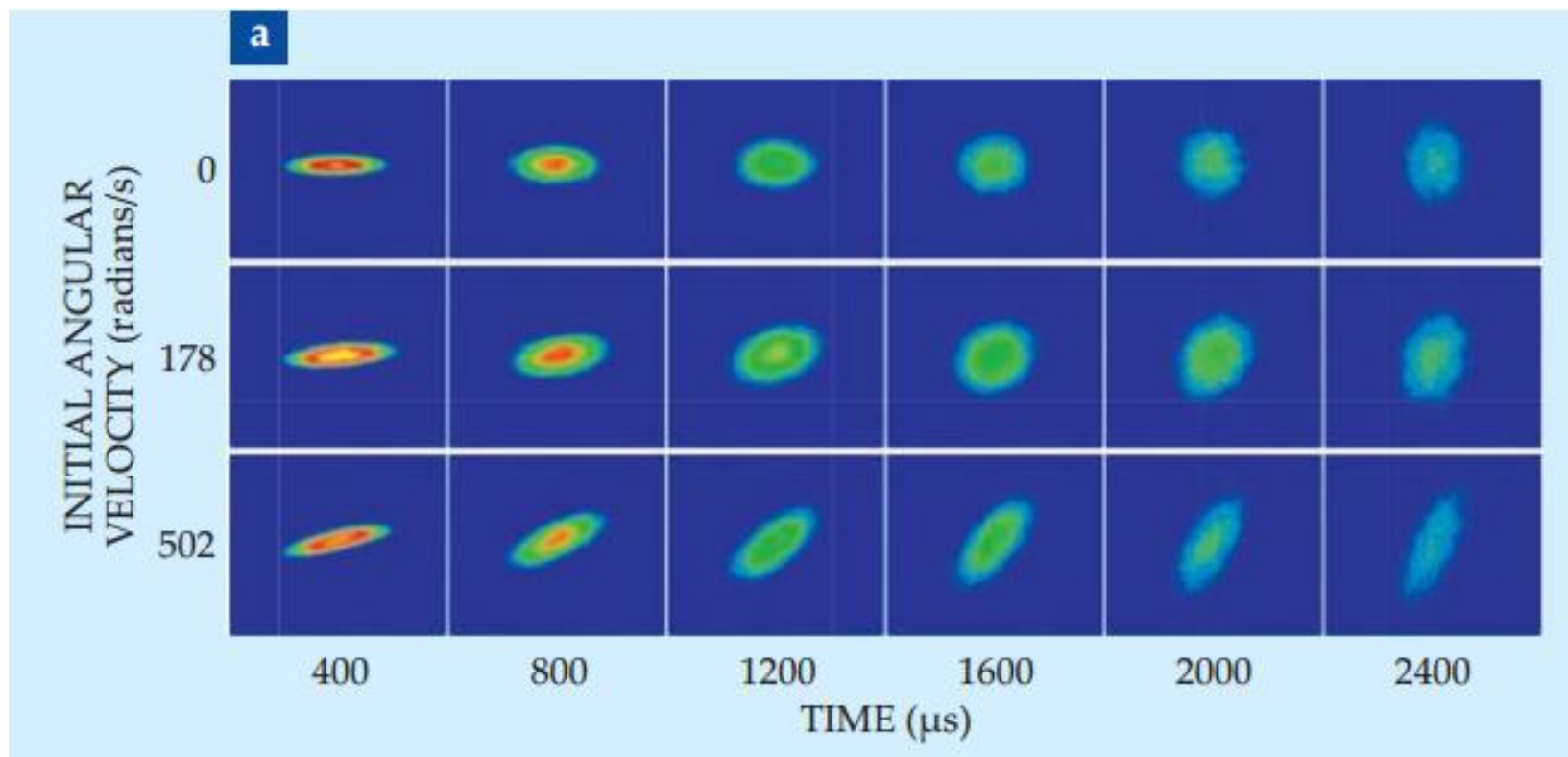
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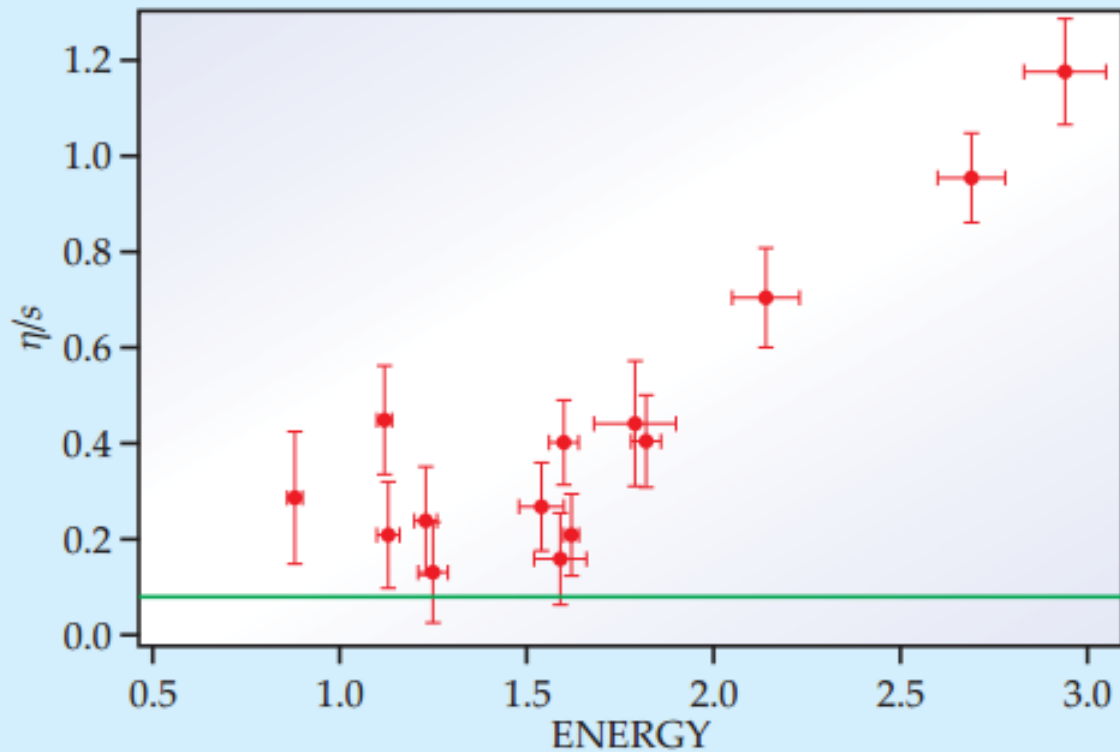


Figure 5. The experimentally determined ratio of shear viscosity to entropy density (η/s , red data points) for normal, strongly interacting lithium-6 is comparable to the conjectured lower bound inspired by string theory (green line).⁶ The energy per particle is normalized to the Fermi energy; in those units the superfluid-to-normal-fluid transition occurs at an energy of 0.8. The statistical error bars do not include possible systematic errors arising from the model used to estimate the viscosity.