

Abstract Submitted  
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**Acoustic attenuation in atom traps** SERGIO GAUDIO, Theory Division, LANL, Department of Physics, Boston College, K.B. BLAGOEV, Theory Division, LANL, K.S. BEDELL, Department of Physics, Boston College, EDDY TIMMERMANS, Theory Division, LANL — We study the damping rate of a BEC phonon excitation in a Bose-Fermi mixture gas. We show how the damping varies in the presence of the BCS superfluid phase in the Fermi gas. We, furthermore, point out some substantial differences with the condensed matter analogue in normal superconductors.

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