

Abstract Submitted  
for the MAR10 Meeting of  
The American Physical Society

**Kapitza Resistance at the Solid-Liquid Interface** SANGHAMITRA  
NEOGI, GERALD MAHAN, Pennsylvania State University — We study the thermal boundary resistance between the electrons in a metal and the phonons in a liquid. The theory includes transverse modes in the fluid that can carry diffusive heat from the interface into the bulk of the liquid. The theory can be an extension over the acoustic mismatch theory for Kapitza resistance.

Sanghamitra Neogi  
Pennsylvania State University

Date submitted: 20 Nov 2009

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