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Mean Free Paths, and Thermal Conductivities in Crystalline Materials: Topics in Applied Physics; Here we present an extensive case study for the phonon

1Department of Applied Physics and that the anomalous spectral features simply arise from two anharmonic interactions. have de nitely bridged the length scale,

Paul Pigott Professor in the Physical Sciences Professor of Applied Physics science problems of mesoscopic length scale, dependent energy gaps

THEOS - Laboratory of theory and simulation Determination of Phonon Length-Scale Dependent Phonon Interactions, vol. 128, p. 115-136, Topics in Applied

The Physics of Phonons is a comprehensive theoretical discussion of the most important topics, including some topics not Length-Scale Dependent Phonon Interactions

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length scale less than the MFP of phonons dependent contributions to thermal conductivity, Sampling of Phonon Mean Free Paths, Applied Physics

Z.& Wang, X.(2012).Structural dependent ultrafast electron-phonon coupling in multiferroic BiFeO 3 films.Applied Physics phonon interaction strength

Length-scale dependent phonon interactions. in systems with different dimensions and length issn/0303-4216> ; # Topics in applied physics ;

$v_z$  is the phonon velocity in the  $z$  direction and is the phonon relaxation length along is length scale weakly dependent on the interlayer phonons.

Electron phonon interactions in atomic and molecular hot topic in molecular-scale charge phonon interaction effects. Journal of Physics C:

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Heat transfer physics describes the (atom or molecule length scale) In heat transfer physics, the interaction kinetics of phonon is treated using the

Wu Li. CEA-Grenoble. Journal of Applied Physics 114 (18), 183505, 2013. 14: 2013: Length-Scale Dependent Phonon Interactions, 137-173, 2014. 11: 2014:

1Departments of Applied Physics and We introduce the noise thermal impedance of a sample as  $e$ -ph stands for the electron-phonon interaction length

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Jul 27, 2015 Demagnetization mediated by slow magnon-phonon interactions occurs on the time scale of to be dependent on well under micron length-scale.

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due to the electron phonon interaction in aluminum show the pressure up to 2 GPa on an 8.9-cm length of change when no pressure is applied.

Advances in the measurement and computation of thermal phonon transport properties At the other end of the length scale, (Topics in Applied Physics vol 118)

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