Abstract Submitted
for the TSF13 Meeting of
The American Physical Society

Report on Experimental Upgrades of Phonon Imaging Apparatus Used in Measurements of Ballistic Phonons through Superconducting Sn Crystals[1] FRANCISCO TERAN, TIM HEAD, Abilene Christian University — This presentation discusses work done to upgrade the performance of a phonon-imaging apparatus. Fabrication and testing of a sample holder used to perform the experiment, and the creation of C# programs to interface galvo-mirrors through a D/A convertor is discussed. We performed a preliminary phonon imaging experiment with a 1mm single crystal sample of Sn, but recorded no measurable ballistic phonon flux.

[1]Thanks to the ACU PURSUIT grants for partial funding of this work.

Timothy Head
Abilene Christian Univ

Date submitted: 13 Sep 2013 Electronic form version 1.4