Abstract Submitted
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Heat conduction in the one-dimensional AF spin chain compound $CuSb_2O_6$[1] NARAYAN PRASAI, JOSHUA L. COHN, University of Miami, MICHAEL G. SMITH, ALWYN REBELLO, JOHN J. NEUMEIER, Montana State University — We report thermal conductivity (κ) measurements on single crystals of the $S = 1/2$ antiferromagnetic spin-chain compound $CuSb_2O_6$ over the temperature range $5K \leq T \leq 300K$. A much larger spin contribution to κ is evident along the spin chains ([110] direction) than along [100] and [010]. The possible roles of spin-phonon scattering and twinning will be discussed along with κ measurements in applied magnetic field.

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