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Thermoelectric effects in the field-suppressed superconducting state of quasi-one-dimensional $\text{Li}_{0.9}\text{Mo}_6\text{O}_{17}$ ¹ JOSHUA L. COHN, University of Miami, CARLOS A.M. DOS SANTOS, Escola de Engenharia de Lorena - USP, Brazil, JOHN J. NEUMEIER, Montana State University — We present resistivity, thermopower (S), and Nernst (ν) measurements in the range $0.4 \text{ K} \leq T \leq 20 \text{ K}$ on single crystals of the quasi-one-dimensional (q1D) metal, $\text{Li}_{0.9}\text{Mo}_6\text{O}_{17}$ (LiPB) along the q1D metallic chains. The low- T limits of S/T and ν/T , determined in the magnetic-field suppressed superconducting state ($T_c = 2 \text{ K}$), indicate a very small Fermi temperature ($T_F \sim 30 \text{ K}$), contrary to expectations from prior work including photoemission. Possible insights from these results into the nature of the mysterious density-wave order^{2,3} responsible for the upturn in resistivity below $\sim 25 \text{ K}$ will be discussed.

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Joshua Cohn
University of Miami

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