

Abstract Submitted  
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**A Study of the Multiferroic State Under High Pressure for Co doped MnWO<sub>4</sub>** MELISSA GOOCH, NARAYAN POUDEL, BERND LORENZ, K. C. LIANG, Texas Center for Superconductivity at the University of Houston, Y. Q. WANG, Y. Y. SUN, Retired, JINCHEN WANG, FENG YE, JAIME FERNANDEZ-BACA, Quantum Condensed Matter Division, Oak Ridge National Laboratory, CHING-WU CHU, Texas Center for Superconductivity at the University of Houston — Multiferroic materials are well understood to be sensitive to small perturbations induced through chemical substitution, magnetic and electric fields, or external pressure. These sensitivities can result in rich and complex phase diagrams to explore; one such system is Co doped MnWO<sub>4</sub>. To gain further insight into this system, high pressure measurements were conducted up to 18 kbars. Results thus far suggest that, in a Co doping range near 13

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