

Abstract Submitted
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Local Structure of the Multiferroic System RMn_2O_5 ¹ T. A. TYSON, M. DELEON, Q. QIAN, NJIT, A. IGNATOV, CAMD, LSU, S. PARK, S.-W. CHEONG, Rutgers U. — In order to understand the origin of the coupled magnetic and ferroelectric properties observed in RMn_2O_5 temperature and magnetic field dependent local structure measurements have been performed. The local structure about the rare earth (R) and the Mn sites have been examined. The atomic correlations involved in the spin-lattice coupling are identified.

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