

Abstract Submitted  
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**The magnetic form factor of SrFe<sub>2</sub>As<sub>2</sub>** WILLIAM RATCLIFF, P.A. KIENZLE, J.W. LYNN, NIST Center for Neutron Research, S. LI, Beijing National Laboratory, Institute of Physics for Condensed Matter Physics, Chinese Academy of Sciences, Beijing China, P. DAI, Department of Physics and Astronomy, University of Tennessee, Knoxville, TN; Neutron Scattering Science Division, Oak Ridge National Laboratory, G.F. CHEN, N.L. WANG, Beijing National Laboratory, Institute of Physics for Condensed Matter Physics, Chinese Academy of Sciences, Beijing China — The Fe-pnictide based superconductors have recently been the subject of great interest. In this talk, we discuss recent neutron diffraction measurements of the magnetic form factor of SrFe<sub>2</sub>As<sub>2</sub>. These measurements reveal that while the form factor is primarily isotropic, a maximum entropy reconstruction reveals that there is evidence of hybridization between the Fe and As orbitals.

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