Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

High Pressure Structure and Transport Properties of the $FeSe_{0.88}$ Superconductor T. WU, Z. CHEN, T.A. TYSON, Z. QIN, T. ZHOU, Physics Department, New Jersey Institute of Technology, C. ZHANG, S.-W. CHEONG, Department of Physics and Astronomy, Rutgers University — The structure of $FeSe_{0.88}$ was measured for pressures up to 7 GPa using diamond anvil cells in order to probe the changes in the lattice which coincide with change in the transport properties. These measurements are being complement by high pressure transport measurement over the same pressure range. The trends in structure and transport with pressure will be presented in order to under stand the origin of the strong pressure dependence of the superconducting transition temperature.

Tao Wu
Physics Department, New Jersey Institute of Technology

Date submitted: 20 Nov 2008 Electronic form version 1.4