

Abstract Submitted  
for the APR09 Meeting of  
The American Physical Society

**Three-Dimensional Equilibrium Reconstruction: V3FIT** J.D. HANSON, S.F. KNOWLTON, Auburn University, S.P. HIRSHMAN, E.A. LAZARUS, Oak Ridge National Laboratory, L.L. LAO, General Atomics — Equilibrium Reconstruction is an inverse problem, where the signals from experimental diagnostics are used to determine the parameters (current profile, pressure profile, toroidal flux), which specify an MHD equilibrium. The V3FIT code is an equilibrium reconstruction code that uses VMEC (a three-dimensional MHD equilibrium code) to solve the forward problem. Latest results will be shown, including geometrical constraints on the equilibrium (limiter positions) and improved profile specification.

J. D. Hanson  
Auburn University

Date submitted: 05 Jan 2009

Electronic form version 1.4