

Abstract Submitted
for the DPP12 Meeting of
The American Physical Society

3D DIII-D Equilibrium Calculations with Magnetic Islands¹

ALLAN REIMAN, DON MONTICELLO, SAM LAZERSON, Princeton Plasma Physics Lab — We discuss 3D equilibrium calculations for the DIII-D tokamak that have been performed using the PIES code, focusing particularly on a single shot that has been studied by a number of different codes in the context of the FY 2012 FES Theory Milestone. The shot was part of an experimental campaign to study the suppression of edge localized modes (ELMs) using an externally imposed nonaxisymmetric magnetic perturbation.

¹Work supported by DOE contract DE-AC02-09CH11466.

Allan Reiman
Princeton Plasma Physics Lab

Date submitted: 12 Jul 2012

Electronic form version 1.4