Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Resistive Wall Mode Studies in NIMROD[1] ANDREA MONTGOMERY, CHRIS HEGNA, ANDREW COLE, University of Wisconsin, Madison, SCOTT KRUGER, Tech-X Corporation — Resistive wall kink stability is considered using a resistive MHD model. Resistive wall boundary conditions are implemented in NIMROD for a periodic cylinder with flat pressure and current equilibrium profiles. Simulation results are compared with analytic solutions [J. M. Finn, Phy. Plasmas **2**, 198 (1995).] The NIMROD code is used to study the effects of rigid plasma rotation on resistive wall modes. The effects of rotation on ideal plasma resistive wall modes and resistive tearing modes are compared and contrasted. Further plans include generalization of this work to more realistic tokamak equilibria.

[1]Research supported by U.S. DoE under grant no. DE-FG02-86ER53218.

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Date submitted: 09 Jan 2009 Electronic form version 1.4