

Abstract Submitted
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Simulation and Visualization Progress of the PSI-Center Interfacing Group B.A. NELSON, C.C. KIM, R.D. MILROY, T.R. JARBOE, University of Washington, THE PSI-CENTER GROUP TEAM — The Interfacing Group of the Plasma Science and Innovation Center (PSI-Center - <http://www.psicenter.org>) performs simulations of collaborating Innovative Confinement Concept (ICC) experiments. Collaborators include the Bellan Plasma Group (Caltech), FRX-L (Los Alamos National Laboratory), HIT-SI (Univ of Wash - UW), LDX (M.I.T.), MST, Pegasus (Univ of Wisc-Madison), PHD (UW), SSPX (Lawrence Livermore National Laboratory), SSX (Swarthmore College), TCS (UW), and ZaP (UW). Extensive simulations of the Caltech experiment study the formation of a kink mode and its dependence on vessel size and current waveform. Simulations of translation and formation of field-reversed configurations (FRCs) continue. Initial Z-pinch sheared-flow stabilization studies are being performed. Output files from NIMROD and its nimplot postprocessor suite are interfaced to the powerful 3-D visualization program, VisIt (<http://www.llnl.gov/visit>). Results from these simulations, as well as an overview of the Interfacing Group status will be presented.

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