Abstract Submitted
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Overview of the Plasma Science and Innovation Center (PSI-Center)[1] T.R. JARBOE, C.C. KIM, G.J. MARKLIN, A.I.D. MACNAB, R.D. MILROY, E.T. MEIER, B.A. NELSON, U. SHUMLAK, S. VADLAMANI, University of Washington, Seattle, Washington 98195, R.A. BAYLISS, C.R. SOVINEC, University of Wisconsin, Madison, Wisconsin 53706, E. HELD, J.-Y. JI, Utah State University, Logan, Utah 84322, PSI-CENTER TEAM — A principal goal of the Plasma Science and Innovation Center (PSI-Center) is the refinement of overlapping computational tools with sufficient physics, boundary conditions, and geometry to be calibrated with experiments to achieve significantly improved predictive capabilities. The Center is for ICC experiments, especially EC experiments. The PSI-Center will initially concentrate on five focus areas: 1) two fluid / Hall physics, 2) kinetic and FLR effects, 3) reconnection and relaxation physics, 4) transport, atomic physics and radiation, and 5) boundary conditions and geometry. An overview of the progress in these areas will be given. The entire ICC community is invited to participate in this center while eleven experimental programs are now providing the database. These eleven experiments are: 1) Caltech reconnection experiments, 2) FRX-L, 3) HIT-SI, 4) MBX, 5) MST, 6) PHD, 7) Pegasus, 8) SSPX, 9) SSX, 10) TCS, and 11) ZAP.

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T. R. Jarboe
University of Washington

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