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Hybrid Simulations of Low-frequency Oscillations in Field-Reversed Configurations PETER JANDOVITZ, Princeton University, SAMUEL A. COHEN, Princeton Plasma Physics Laboratory — We report on progress in developing a kinetic-ion, fluid-electron simulation code to simulate low-frequency ($\sim \omega_{ci}$) phenomena in field-reversed configuration (FRC) plasmas. The code retains inductive and electrostatic fields, but neglects radiation and advances electrons implicitly to allow for longer timesteps. The phenomena of interest include fast-ion-driven Alfvénic modes as well as the interaction of an FRC with an external rotating magnetic field (RMF).

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