

Abstract Submitted
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First operation of the PFRC-2 device SAMUEL COHEN, Princeton Plasma Physics Laboratory — The PFRC-2 is a field-reversed-configuration device built, with ARRA funding, to investigate long-pulse plasma behavior and ion heating by rotating magnetic fields at a ratio of ion cyclotron frequency to RMF frequency near $1/5$. Using high-temperature superconducting passive coils internal to the PFRC-2 vessel, we have produced stable plasma discharges over 100 ms in duration with a heating power of 15 kW. Characteristics of the discharges will be described.

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