

Abstract Submitted
for the DPP08 Meeting of
The American Physical Society

Magnetic and Pressure Probes on the HyperV Contoured Coaxial Plasma Accelerator¹ S. MESSER, A. CASE, S. BROCKINGTON, R. BOMGARDNER, F.D. WITHERSPOON, R. ELTON, HyperV Technologies — Magnetic and pressure data from several contoured-gap coaxial railguns is presented. These plasma guns use an injected plasma annulus and shaped inner and outer electrodes to mitigate the blow-by instability. Passive magnetic probes and photodiodes search for evidence of the blow-by instability and azimuthal asymmetries. Stagnation pressure and velocity are compared for different size guns and for different driving voltages and currents.

¹Work supported by the U.S. DOE Office of Fusion Energy Sciences.

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Date submitted: 29 Oct 2008

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