

Abstract Submitted
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Richtmyer-Meshkov Instability Growth Studies in Ion Beam Driven HEDP Experiments NAEEM A. TAHIR, GSI Darmstadt, ALEXANDER SHUTOV, I.V. LOMONOSOV, IPCP Chernogolovka, A.R. PIRIZ, UCLM Ciudad Real, THOMAS STOEHLKER, GSI Darmstadt, CLAUDE DEUTSCH, LPGP Orsay — A Mach type reflection scheme has been used to generate a plane shock wave using a wedge shaped multi-layered target irradiated by an intense heavy ion beam. The shock wave is allowed to pass through a corrugated boundary to study the Richtmyer-Meshkov instability. Numerical simulations show that one can study the instability growth in linear and non-linear regime in fluids as well as solids.

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