

Renewal of grants for research in High Energy Density Laboratory Plasmas (FY 2008)

June 2008

Institution	PI	Short Title
GA/OSU/UCSD/UNR /LLNL/UR	Stephens, Freeman, Farhat, Sentoku, MacKinnon, Meyerhoffer	Advanced Concept Exploration of Fast Ignition
U.Texas-Austin/PPPL	Shvets/Kaganovich	Collective High-Current Beam Effects Relevant to Fast Ignition of Fusion Targets
Air Force Research Laboratory, Kirtland AFB, Albuquerque, NM	Degnan	Compressional Heating of a Simply Connected, Magnetically Confined Toroidal Plasma
Los Alamos National Laboratory	Intrator	Magnetized Target Fusion Studies
U. Nevada-Reno	Bauer and Siemon	Diffuse Pinch Experiment to Study Wall-Plasma Interactions and Confinement
MIT	Chen	Exploration of Plasma Jets Approach to High Energy Density Physics
HyperV/Voss Scientific/Prism/Far-Tech	Witherspoon/Welch /MacFarlane/Kim	Development and Benchmarking of a Hybrid PIC Code for Dense Plasmas and Fast Ignition
U. Nevada-Reno	Sentoku	Isochoric Heating of Hot Dense Matter by Laser-Magnetized Plasma Interaction
U. Washington-Seattle	Slough	Small Scale Fusion: The Pulsed High Density FRC Experiment
Los Alamos National Laboratory	Kirkpatrick	Innovative concepts in magnetized HEDP