## Abstract Submitted for the DPP11 Meeting of The American Physical Society

Directly driven, tamped heavy ion ICF targets¹ MATTHEW TERRY, JOHN PERKINS, JOHN BARNARD, LLNL — Directly driven, tamped heavy ion ICF targets have the potential for high hydrodynamic efficiency while also relaxing accelerator phase space constraints by allowing high kinetic energy ions. The combination of direct heating of the ablator and energy deposition within a high Z tamper leads to a dynamic spectrum of hohlraum-like, x-ray drive and direct drive-like ablation. We discuss the development of a directly driven, tamped, heavy ion ICF target with emphasis on continuum of indirect and direct drive in these targets. Additionally, we discuss the compatibility of shock ignition with this class of targets.

<sup>1</sup>This work performed under the auspices of the U.S. DOE by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

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Date submitted: 25 Jul 2011 Electronic form version 1.4