

Abstract Submitted
for the DPP07 Meeting of
The American Physical Society

Sorting Category: 4.6.0 (E)

Short pulse laser coupling efficiency to hot electrons for fast-ignition studies.¹ A.G. MACPHEE, C.D. CHEN², D. HEY³, I. JOVANOVIĆ, M.H. KEY, T.W. PHILLIPS, A.J. MACKINNON, Lawrence Livermore National Laboratory, Livermore CA 94550, R. CLARKE, CCLRC Rutherford Appleton Laboratory, Oxfordshire, UK, K. AKLI, D. OFFERMANN, A. LINK, V. OVCHINNIKOV, L. VAN WOERKOM, R. FREEMAN, College of Mathematical and Physical Sciences, The Ohio State University, Columbus, OH, J. PASLEY, M. WEI, T.Y. MA, J. KING, F.N. BEG, Department of Mechanical and Aerospace Engineering, University of California-San Diego, La Jolla, CA, R.B. STEPHENS, General Atomics, San Diego, CA — Experiments were performed at the Titan laser facility at LLNL to study energy coupling efficiency to hot electrons as a function of irradiation conditions and target geometry. Hot electron spectra from cone and slab targets are compared and correlation with their K shell emission spectra is examined.

¹This work was performed under the auspices of the U.S. Department of Energy by University of California, Lawrence Livermore National Laboratory under Contract W-7405-Eng-48

²and Plasma Science Fusion Center, Massachusetts Institute of Technology, Cambridge, MA

³and University of California Davis, Dept. of Applied Sciences, Davis, CA

Prefer Oral Session
 Prefer Poster Session

A. G. MacPhee
macphee2@llnl.gov
Lawrence Livermore National Laboratory, Livermore CA 94550

Date submitted: 27 Jul 2007

Electronic form version 1.4