

Abstract Submitted  
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**Analysis of results from high-foot NIF ignition capsules<sup>1</sup>** T.R. DITTRICH, J.D. SALMONSON, P.A. AMENDT, L.F. BERZAK HOPKINS, D.A. CALLAHAN, D.E. HINKEL, O.A. HURRICANE, T. MA, A.E. PAK, H.-S. PARK, G.B. ZIMMERMAN, Lawrence Livermore National Laboratory, G.A. KYRALA, Los Alamos National Laboratory, M.J. ROSENBERG, H.G. RINDERKNECHT, Massachusetts Institute of Technology — Encouraging results have been obtained using a strong first shock during the implosion of carbon-based ablator ignition capsules. These “high-foot” implosion results show that capsule performance deviates from 1D expectations as laser power and energy are increased. Possible causes of this deviation include disruption of the hot spot by jets originating in the capsule fill tube and kinetic effects in the fuel. Results of simulations investigating these effects will be presented.

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