

Abstract Submitted
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Hohlraum Drive and Asymmetry in High Foot Implosions on NIF¹ D. CALLAHAN, O. HURRICANE, D. CASEY, E. DEWALD, T. DITTRICH, T. DOEPPNER, S. HAAN, D. HINKEL, L. BERZAK HOPKINS, O. JONES, A. KRITCHER, S. LEPAPE, T. MA, A. MACPHEE, J. MILOVICH, A. PAK, H.-S. PARK, P. PATEL, J. RALPH, H. ROBEY, S. ROSS, J. SALMONSON, B. SPEARS, P. SPRINGER, R. TOMMASINI, LLNL — The strategy in the high foot campaign on NIF has been to take reasonably small steps away from a working design, which means that we have a very rich database to understand both capsule and hohlraum performance. Over the course of the campaign, we have changed the laser power and energy, used both gold and depleted uranium hohlraums, and varied the thickness of the ablator. Each of these changes has an impact on the hohlraum drive and drive asymmetry, as measured by the implosion shape. In this talk, we will discuss what we have learned about hohlraum performance and residual kinetic energy resulting from drive asymmetry in the high foot database.

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