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Shock Timing experiments on the National Ignition Facility¹ P.M. CELLIERS, LLNL, T.R. BOEHLY, University of Rochester, H.F. ROBEY, P.S. DATTE, M.W. BOWERS, K.G. KRAUTER, G. FRIEDERS, G.F. ROSS, J.L. JACKSON, LLNL, R.E. OLSON, Sandia, D.H. MUNRO, LLNL, A. NIKROO, General Atomics, J.J. KROLL, J.B. HORNER, A.V. HAMZA, S.D. BHANDARKAR, LLNL, C.R. GIBSON, General Atomics, J.H. EGGERT, R.F. SMITH, H.-S. PARK, B.K. YOUNG, W.W. HSING, G.W. COLLINS, O.L. LANDEN, LLNL, D.D. MEY-ERHOFER, University of Rochester — Experiments are proceeding to tune the initial shock compression sequence of capsule implosions on the National Ignition Facility. These experiments use a modified cryogenic hohlraum geometry designed to match the performance of ignition hohlraums. The targets employ a re-entrant Au cone to provide optical access to the shocks as they propagate in the liquid deuterium-filled capsule interior. The strength and timing of the shock sequence is diagnosed with VISAR (Velocity Interferometer System for Any Reflector). The results of these measurements will be used to set the pulse shape for ignition capsule implosions to follow.

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