

Abstract Submitted
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Update on specifications for NIF ignition targets, and their rollup into an error budget¹ STEVEN HAAN, P.A. AMENDT, D.A. CALLAHAN, T.R. DITTRICH, M.J. EDWARDS, B.A. HAMMEL, D.D. HO, O.S. JONES, J.D. LINDL, M.M. MARINAK, D.H. MUNRO, S.M. POLLAINÉ, J.D. SALMONSON, B.K. SPEARS, L.J. SUTER, Lawrence Livermore National Laboratory — Targets intended to produce ignition on NIF are simulated to set specifications for fabrication, the laser, and experimental campaigns prior to ignition. Recent work has focused on refining designs that use 1.0 MJ of laser energy. Ablators are Be(Cu), CH(Ge), and high-density CVD C. The main-line hohlraum design has a He gas fill, a wall of U-Au layers, and no shields as were formerly proposed between capsule and laser entrance holes. Complete requirements tables have been prepared for all the targets. The specifications are combined into an error budget indicating adequate margin for ignition with all of the designs. The emphasis in this presentation will be on changes in requirements in the last year, and on the overall rollup of the errors quantifying margins and uncertainties.

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