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Assessing NIF Ignition Capsule Performance Sensitivity to Hot Electrons¹ JAY SALMONSON, Lawrence Livermore National Laboratory, STEVEN HAAN, DONALD MEEKER, HARRY ROBEY, LARRY SUTER — We report on recent work to characterize the effects of hot electrons on the performance of the ignition capsule point design on the National Ignition Facility. We study effects of hot electrons as a function of their time of deposition, their quantity and their temperature. We also explore the sensitivity to where they are deposited in relation to the gold hohlraum and Helium fill gas. Capsule performance impact is assessed based on fuel adiabat maximum and implosion velocity.

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