## Abstract Submitted for the DPP17 Meeting of The American Physical Society

Analysis of BigFoot HDC SymCap experiment N161205 on NIF<sup>1</sup> T. R. DITTRICH, K. L. BAKER, C. A. THOMAS, L. F. BERZAK HOPKINS, J. A. HARTE, G. B. ZIMMERMAN, D. T. WOODS, A. L. KRITCHER, D. D. HO, C. R. WEBER, Lawrence Livermore National Laboratory, G. KYRALA, Los Alamos National Laboratory — Analysis of NIF implosion experiment N161205 provides insight into both hohlraum and capsule performance. This experiment used an undoped High Density Carbon (HDC) ablator driven by a BigFoot x-ray profile in a Au hohlraum. Observations from this experiment include DT fusion yield, bang time, DSR, Tion and time-resolved x-ray emission images around bang time. These observations are all consistent with an x-ray spectrum having significantly reduced Au m-band emission that is present in a standard hohlraum simulation. Attempts to justify the observations using several other simulation modifications will be presented.

<sup>1</sup>This work was performed under the auspices of the Department of Energy by Lawrence Livermore National Laboratory under contract DE-AC52-07NA27344

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Date submitted: 13 Jul 2017 Electronic form version 1.4