

Abstract Submitted
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Temperature Measurements of High-Z Plasma Exiting the Laser Entrance Hole of Ignition Scale Depleted Uranium Hohlräume NICHOLAS PARRILLA, Case Western Reserve University, JOE RALPH, BEN BACHMANN, CLEMENT GOYON, EDUARD DEWALD, Lawrence Livermore National Laboratory — The temperature profile from the Laser Entrance Hole to 3.5 mm from the exit point was measured for plasma with high atomic number (high-Z) of Depleted Uranium ignition scale hohlraums. Each hohlraum was filled with 0.6 mg/cc He as part of the high foot CH campaign. Temperature of the flowing plasma is measured by fitting the velocity distribution to a Maxwellian and considering the Planckian spectral distributions with and without a 42 μm Ge filter. The two spectra are then compared to determine the temperature of the high-Z plasma.

Nicholas Parrilla
Case Western Reserve University

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