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An Overview of Target Fabrication at LLNL

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Targets are critical elements of wide-ranging mission-oriented fusion and basic high energy density science research efforts that use ultra-high power lasers like the one located at the National Ignition Facility (NIF). The Target Fabrication program at Lawrence Livermore National Lab is a core competency where multiple disciplines such as precision and materials integration engineering and high resolution metrology are consolidated to produce diverse target types that range from the simple to complex and exquisite micro-assemblies that operate at deep cryogenic conditions. This presentation will seek to highlight these capabilities and the sustained progress they enable in the study of inertial confinement physics and the challenging quest for ignition.
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