

Abstract Submitted
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Sliding friction experiments at Alise SÉBASTIEN HULIN, Commissariat à l'Énergie Atomique, CLAUDE FOURMENT, Centre Lasers Intenses et Applications, ALEXIS CASNER, TONY CAILLAUD, FABRICE NICOLON, Commissariat à l'Énergie Atomique, PHILIPPE NICOLAÏ, GUY SCHURTZ, JEAN-LUC FEUGEAS, VLADIMIR TIKONCHUK, XAVIER RIBEYRE, Centre Lasers Intenses et Applications, ALAIN BOSCHERON, PHILIPPE CANAL, CHRISTIAN LEPAGE, Commissariat à l'Énergie Atomique — Following recent developments of the fast ignitor concept to achieve Inertial Confinement Fusion, a cone made of a heavy material such as gold is used to guide the match laser into the compressed fuel. Before reaching this point, the DT sphere will be compressed and subsequently its plastic shell will slide along the gold cone. We realized preliminary experiments on the ALISE laser facility to understand the behavior of this shell sliding along a gold wall. We describe in this paper the experimental setup used to accelerate a 10 μm thick CH foil up to 100 km/s between two gold walls and measure the evolution of the foil's rear side speed. First results will be presented as well as preliminary interpretations.

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