

Abstract Submitted  
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**Attempts of pressure standard material's isentropic measurement and semiconductor/metal sample recovery using laser-driven ramp compression**<sup>1</sup> NORIMASA OZAKI, KOHEI MIYANISHI, TOMOKAZU SANO, TOMOAKI KIMURA, TAKASHI ENDO, FUMIO KAWAMURA, AKIO HIROSE, RYOSUKE KODAMA, Graduate School of Engineering, Osaka University, ERIK BRAMBRINK, ALESSANDRA BENUZZI-MOUNAIX, ALEXANDRA DIZIERE, HUIGANG WEI, MICHEL KOENIG, LULI, Ecole Polytechnique, TOMMASO VINCI, CEA, RAYMOND SMITH, Lawrence Livermore National Lab., OSAMI SAKATA, SPring-8, YOUICHI SAKAWA, ILE, Osaka University — We report preliminary experimental attempts on pressure standard development and on material synthesis/modification using laser-driven ramp compression. Gold and platinum isentropic compression curves are inferred by measuring the free surface velocities of those with different thicknesses. Ramp compressed silicon were recovered at large laser facility, analyzed with synchrotron x-ray diffraction measurements. New peaks appear in the diffraction pattern of the compressed target, which are not found in that of the uncompressed.

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