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**Probing off-Hugoniot states of Lead at 85 GPa pressure** ALEXANDER FEDOTOV GEFEN, ELLA MOSHE, BENNY GLAM, ELKANA PORAT, YOSSEF HOROVITZ, AVI RAVID, Soreq NRC, ARNON YOSSEF-HAI, EITAN EIDELSTEIN, GABRIEL BIALOLENKER, DANIELA KARTOON, NRC Negev
— The design and experimental results of probing the EOS of Pb in off-Hugoniot states are reported. A compression at two shock waves was generated by using double layer impactor. The experimental setup for measuring the second shock velocity is based on the "overtake method". It includes two lead targets of different thicknesses whose back surface velocities were measured using an interferometry method. The pressures of the first and second shock waves were 60 GPa and 85 GPa, respectively.

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