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Hugoniot elastic limits in oriented cyclotrimethylene trinitramine (RDX) at low pressure DANIEL HOOKS, MARC CAWKWELL, KYLE RAMOS, Los Alamos National Laboratory — The Hugoniot elastic limit (HEL) of oriented samples of cyclotrimethylene trinitramine (RDX) was examined. For several years, the orientation dependent HEL response has been considered a marker of orientation-dependent initiation behavior. We have previously noted inconsistencies with this hypothesis in higher-pressure experiments and static determinations of elastic-plastic behavior. Here, we will present a data set for four orientations of RDX shock impacted to a peak pressure of about 1 GPa. The results will be compared with previous experiments at higher pressure.

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