

Abstract Submitted
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Strong Radiation Driven Shocks in Cassio JAMES COOLEY, Los Alamos National Laboratory — In this paper we present results of a sensitivity study for strong shocks in the HED code Cassio. Cassio is an Eulerian radiation-hydrodynamics code being developed at Los Alamos to study HED physics. The radiation transport can be either grey diffusion, multi-group diffusion or IMC. The materials models include three-temperature radiation, electron and ions and wither analytic or tabular EOS. We examine the behavior of strong shocks and explore not only the hydrodynamic convergence behavior but also the effect of other physics modeling choices on shock evolution.

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