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Comparison of Models for Shock Compaction of Porous Cerium Oxide MARK SHORT, ANTHONY FREDENBURG, Los Alamos National Laboratory — Continuum engineering models are often used to describe the shock compaction of porous materials. These range in complexity and include snowplow, palpha and multi-phase continuum models. We will discuss the relative performance of various compaction models in a series of one- and two-dimensional validation tests that involve high explosive drive of porous cerium oxide.

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