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Preliminary results investigating mix in colliding-shock experiments¹ DUSTIN OFFERMANN, PAUL KEITER, ERIC LOOMIS, LESLIE WELSER-SHERRILL, JIM FINCKE, NICK LANIER, Los Alamos National Laboratory — Experiments have been performed at the Omega laser facility to investigate turbulence-driven mix from two colliding shocks, such as expected in ICF ignition capsules. Two shocks were generated at either end of a cylindrical, CH foam. The evolution of an Al tracer layer at one end of the foam was measured using point-projection radiography. Comparison of this data with simulations from the code, RAGE has been done to improve its predictive capability for ICF experiments. RAGE implements the Besnard-Harlow-Rauenzahn (BHR) model, which is intended for turbulent transport in fluids with large density variations.

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