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Preliminary results from a shear-driven mix experiment PAUL KEITER, JIM FINCKE, LESLIE WELSER-SHERRILL, ERIC LOOMIS, DUSTIN OFFERMAN, Los Alamos National Laboratory — We present preliminary experimental results of a shear driven mix experiment. The target consists of two foam half-cylinders, cut lengthwise, in a Be cylinder. Between the two pieces of foam is an Al tracer layer. A plastic ablator is irradiated by laser beams, which drives a shock. The shock propagates at a different velocity in each foam, which creates a velocity shear. This shear in turn drives the turbulence. Using x-ray radiography, we measure the hydrodynamic evolution of the al layer. We will present the experimental results and compare them to simulations.

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