

Abstract Submitted  
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**Measurements of a re-shocked heavy-gas curtain using PLIF**  
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SANJAY KUMAR, LANL — We investigate Richtmyer-Meshkov instability developing in a heavy-gas curtain. The SF<sub>6</sub> curtain is accelerated by a planar, Mach 1.2 shock, and then re-shocked by the nominally planar reflection from the end of the tube. We obtain preliminary concentration measurements of the transitioning heavy gas using acetone-based planar laser-induced fluorescence (PLIF). High-resolution images are acquired before and after re-shock.

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