

Characterization of Embedded Spheres in Opaque Foams*

K.K. Dannenberg, R.R. Holt,¹ and D.G. Schroen

General Atomics, P.O. Box 85608, San Diego, California 92186-5608

¹Schafer Corporation, 303 Lindbergh Ave, Livermore, California 94551

Recent astrophysical jet targets model astrophysical jet HH 110, in which the jet impacts a molecular cloud and is deflected. In order to simulate the jet being deflected off the cloud, a Ti slab is driven into a low-density foam in which a plastic sphere has been embedded. This foam is predominantly opaque, and the sphere location is difficult to diagnose. Quantifying the sphere location requires radiography combined with a diagnosable fiducial. A method for diagnosing the location of the sphere in the foam is shown.

*Work support by the U.S. Department of Energy under Contract No. DE-AC03-01SF22260.