

Abstract Submitted
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Time-Resolved Polar X-Ray Images of Capsule Implosions on the NIF¹ STEVEN GLENN, NOBUHIKO IZUMI, Lawrence Livermore National Laboratory, GEORGE KYRALA, Los Alamos National Laboratory, DAVID BRADLEY, RICHARD TOWN, JOSE MILOVICH, Lawrence Livermore National Laboratory, STEVE WEBER, ROBIN BENEDETTI, Lawrence Livermore National Laboratory, NIF TEAM — Key experiments leading to ignition at the National Ignition Facility (NIF) involve measuring the symmetry of imploding capsules using images recorded by x-ray framing cameras. Recent polar x-ray images display a wide variety of interesting features including four-fold azimuthal symmetry. We describe techniques that have been developed to quantify the azimuthal shape and explain the physical phenomena associated with features observed in the images.

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