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Polar-Drive Implosions on OMEGA and the NIF P.B. RADHA, M. HOHENBERGER, F.J. MARSHALL, D.T. MICHEL, R.S. CRAXTON, D.H. EDGELL, D.H. FROULA, V.N. GONCHAROV, J.A. MAROZAS, R.L. MCCRORY, P.W. MCKENTY, D.D. MEYERHOFER, T.C. SANGSTER, A. SHVYDKY, S. SKUPSKY, Laboratory for Laser Energetics, U. of Rochester, S. LEPAPE, T. MA, A.J. MACKINNON, LLNL — Symmetry and implosion velocity are two important aspects of polar-drive (PD) implosions that determine target performance. OMEGA and NIF PD implosions driven at ignition-relevant intensities are discussed. Nonuniformities from simulated x-ray images of the backlit imploding shell on OMEGA and of target self-emission are compared to observations. The trajectory from the self-emission region in x-ray images is also compared to simulations. The observations are generally consistent with simulations, but some differences are seen. Possible reasons for these differences are discussed. This material is based upon work supported by the Department of Energy National Nuclear Security Administration under Award Number DE-NA0001944.

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