

Abstract Submitted  
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**Simulations of 3D LPI's relevant to IFE using the PIC code OSIRIS** F.S. TSUNG, W.B. MORI, B.J. WINJUM, UCLA — We will study three dimensional effects of laser plasma instabilities, including backward raman scattering, the high frequency hybrid instability, and the two plasmon instability using OSIRIS in 3D Cartesian geometry and cylindrical 2D OSIRIS with azimuthal mode decompositions. With our new capabilities we hope to demonstrate that we are capable of studying single speckle physics relevant to IFE in an efficient manner.

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