Modeling a Carbon Diagnostic System Using MCNPX

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MCNPX is currently being used to model various carbon diagnostic configurations for use at OMEGA with plans to design a similar system for the National Ignition Facility (NIF). The purpose of such models is to optimize the carbon diagnostic’s detection of signature products (i.e. tertiary neutrons) from a self-sustaining inertial confinement fusion (ICF) implosion. Results will be presented.

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