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Publication Date
2006-03-15
Visual Tsunami 2.0: a multi-physics, user-friendly, hydrodynamics design code

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Since the early 1990s, the series of simulation code known as TSUNAMI has been the main tool employed to explore gas dynamics phenomena in thick-liquid protected inertial fusion target chambers. The applicability and user-friendliness of the code was recently extended through a set of MATLAB pre- and post-processing tools and a new core was written in Fortran 95. The code, Visual Tsunami 1.0, was documented in Ref. 1. The latest version of the code, Visual Tsunami 2.0, introduces a novel MATLAB core and makes use of the user-friendly pre- and post-processing tools developed for Visual Tsunami 1.0. An overview of the code models will be presented along with a few examples of its capabilities and applications.