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Special Topic Article

Current Status of Alfvén Eigenmode Research

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Contributed Paper

Radiation Hydrodynamic Simulation of Extreme Ultra-Violet Emission from Laser-Produced Tin Plasmas

- ... SUNAHARA Atsushi, SASAKI Akira, TANUMA Hajime, NISHIHARA Katsunobu, NISHIKAWA Takeshi,
KOIKE Fumihiro, FUJIOKA Shinsuke, AOTA Tatsuya, YAMAURA Michiteru, SHIMADA Yoshinori,
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Ignition and burn dynamics of a fast ignition target obtained from a numerical simulation including external heating, α -particle transport, radiation transport and thermal conduction. Once the edge of an imploded dense core is heated up to ignition temperature (~ 10 keV) by the external pulse (10 ps duration), a burn wave driven by a shock wave propagates into the remaining cold fuel region, and then a high burn-up ratio ($\sim 30\%$) is obtained. (Tomoyuki JOHZAKI *et al.*, Plasma and Fusion Research Vol.2, 041 (2007). <http://www.jspf.or.jp/PFR/>)