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Cover

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 (~30%) is obtained. (Tomoyuki JOHZAKI *et al.*, Plasma and Fusion Research Vol.2, 041 (2007). http://www.jspf.or.jp/PFR/)

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