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Commentary

Progress of Fluctuation Measurement using a Phase Contrast Imaging

for High Temperature Plasma TANAKA Kenji, KINOSHITA Toshiki and SAKAI Hikona 473

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Cover

In a magnetic nozzle for laser fusion rocket, an expanding plasma is expelled through the Lorentz force generated by diamagnetic current and the magnetic field. The figure depicts the simulated plasma density distributions for 62 MJ [(a)–(c) $t = 20 - 40 \mu\text{s}$], 500 J [(d)–(f) $t = 0.4 - 0.8 \mu\text{s}$], and 500 J with 10 times heavier mass [(g)–(i) $t = 1.2 - 2.4 \mu\text{s}$]. Despite significant differences in energy, time, and space, the time evolution remains similar.

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