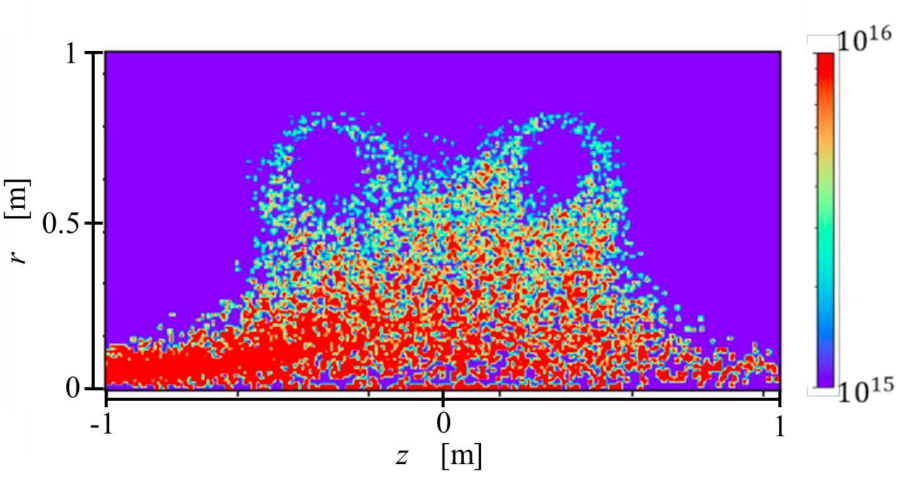
JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research
Vol. 101, No. 5, May 2025

Special Topic Articles



Cover

Ion density distribution in a non-adiabatic trap. The image shows the distribution resulting from ring-shaped particle injection from the left. A non-adiabatic trap is a magnetic confinement scheme in which Helmholtz coils are placed inside a solenoid, and a current is applied to cancel the solenoidal magnetic field at the center of the device. The eye-like open region corresponds to the position of the Helmholtz coils, and plasma accumulates in the weak magnetic field region formed between them. In addition, particles are observed to spiral along the magnetic field lines outside the Helmholtz coils.
(Sena SAITO *et al.*, Plasma and Fusion Research, Vol. 20, 1203023 (2025) https://www.jspf.or.jp/)

Published Monthly by
The Japan Society of Plasma Science and Nuclear Fusion Research
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