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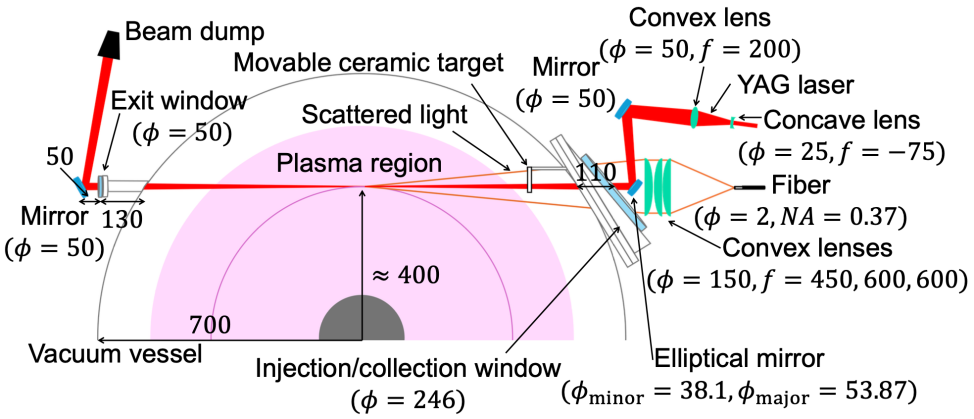

Cover

For the development of Thomson scattering measurement system adapted to the harsh environment of fusion reactors, we installed a line integrated Thomson scattering (LITS) system with a single line of sight on the TST-2 spherical Tokamak device and confirmed its principle and performance. The figure shows a schematic diagram of the single line of sight LITS system on TST-2, characterized by a complete backscattering configuration where the optical axes of the injection and collection systems are aligned. With this configuration, we can obtain a long scattering length and improve SN ratio.
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