

Additional Information Department of Advanced Energy, GSFS, U Tokyo

Associate Professor Hiroshi Tanabe (scheduled to arrive on September 1, 2021) will start a new laboratory from FY 2022 entrance examination. The contents of the Chosa Hyou will be revised accordingly. Please submit the information of Chosa Hyou into the web-entry form after receiving instruction.

Spherical Tokamak, astrophysics and fusion experiments



Energy Conversion System Laboratory



Our group is working on laboratory astrophysics and fusion plasma physics with our merging spherical tokamak formation experiments.

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Our group is working on three research topics: laboratory astrophysics, nuclear fusion and development of advanced plasma diagnostics with Ono/Inomoto laboratory. For the first topic, we are investigating the energy conversion mechanism of magnetic reconnection which is associated with explosive energy release such as in solar flare. While we are also exploring its application as an efficient way of high-beta spherical tokamak formation method. To explore the detailed heating/transport mechanism, our group is working on the application study of computer tomography with plasma diagnostics such as ion Doppler tomography. In the research of plasma physics, we need many viewpoints from different background research topics and look forward to your contribution to our advanced energy course.

