Energy Physics Engineering

Advanced Fusion Reactor Engineering





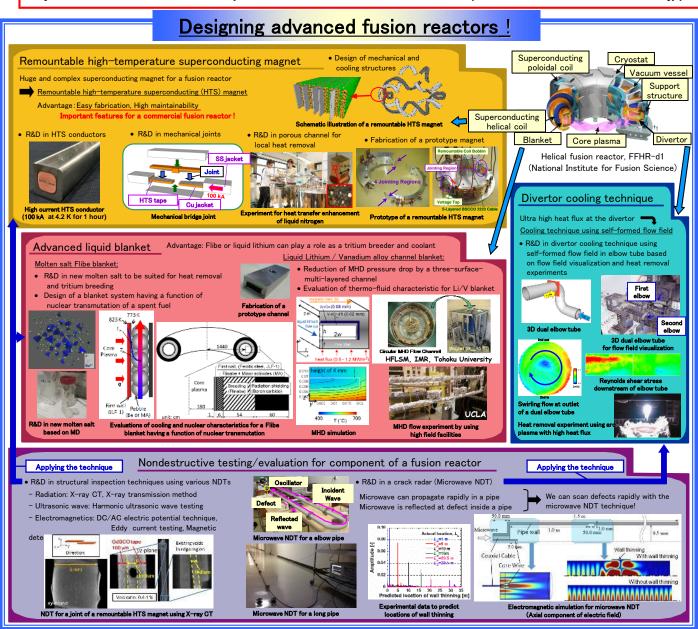




Prof. HASHIZUME Hidetoshi, Assoc. Prof. ITO Satoshi, Assoc. Prof. EBARA Shinji, Senior Assist. Prof. CHENG Weiying, Assist. Prof. SHISHIDO Hiroki

We are studying on novel technologies for designing advanced fusion reactors, from a view point of integrated energy engineering using fluid dynamics, heat transfer engineering, electromagnetics and structural mechanics.

Official Website: http://web.tohoku.ac.jp/hashizume_fan_club/home/e-home.html If you need further information, please contact Assist. Prof. Shishido (hiroki.shishido.a7@tohoku.ac.jp).



Research Topics

- Design and development of a remountable high-temperature superconducting magnet
- Design and development of advanced liquid blankets
- Development of a divertor cooling technique using self-formed flow field
- Development of nondestructive testing/evaluation methods for component of a fusion reactor
- Development of a system to transmute radioactive wastes using fusion neutrons