

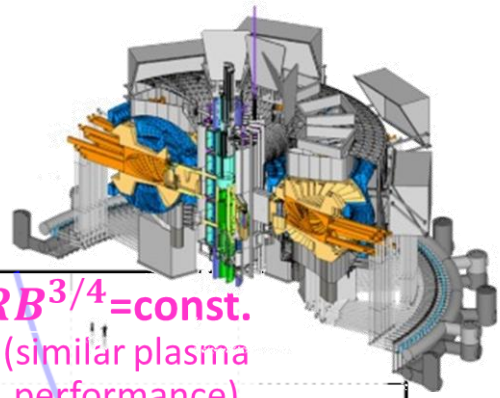
# FIP/P7-39

## Conceptual Design of a Compact Helical Fusion Reactor FFHR-c1 for the Early Demonstration of a Year-long Electric Power Generation

by Takuya GOTO *et al.*, (NIFS, Japan)

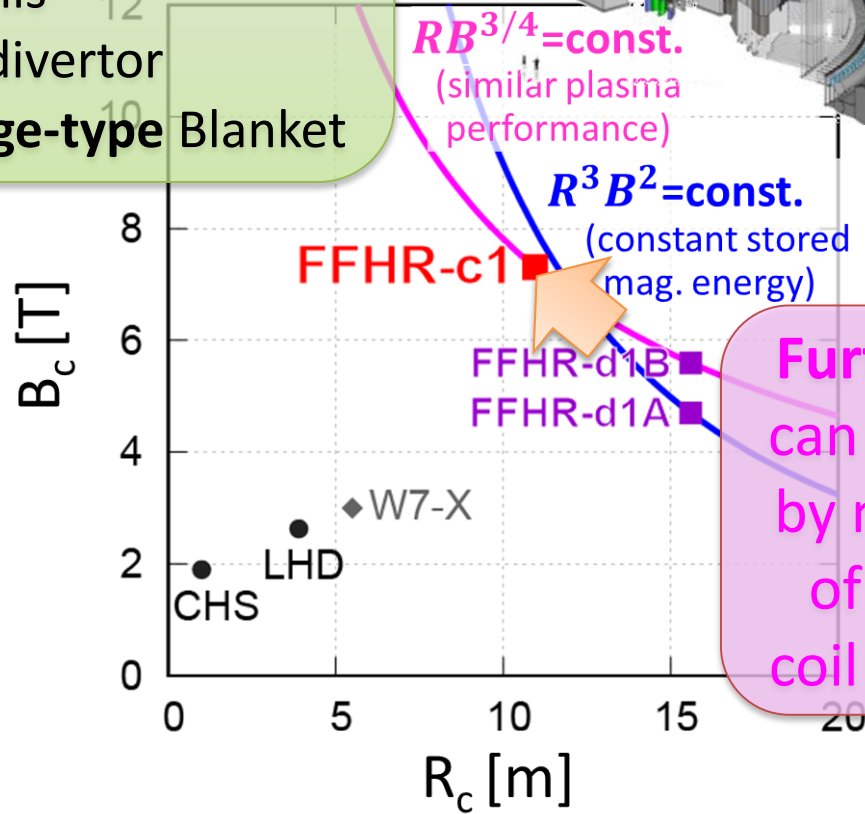
### Compact design w/ innovative concepts

- HTS joint winding
- NITA coils
- Liquid divertor
- Cartridge-type Blanket



### Year-long operation w/Q~15 is possible

- Net electric power
- Tritium self-sufficiency
- Practical availability
- ➔ Path to power plant



Further large Q can be achieved by modification of the helical coil winding law

