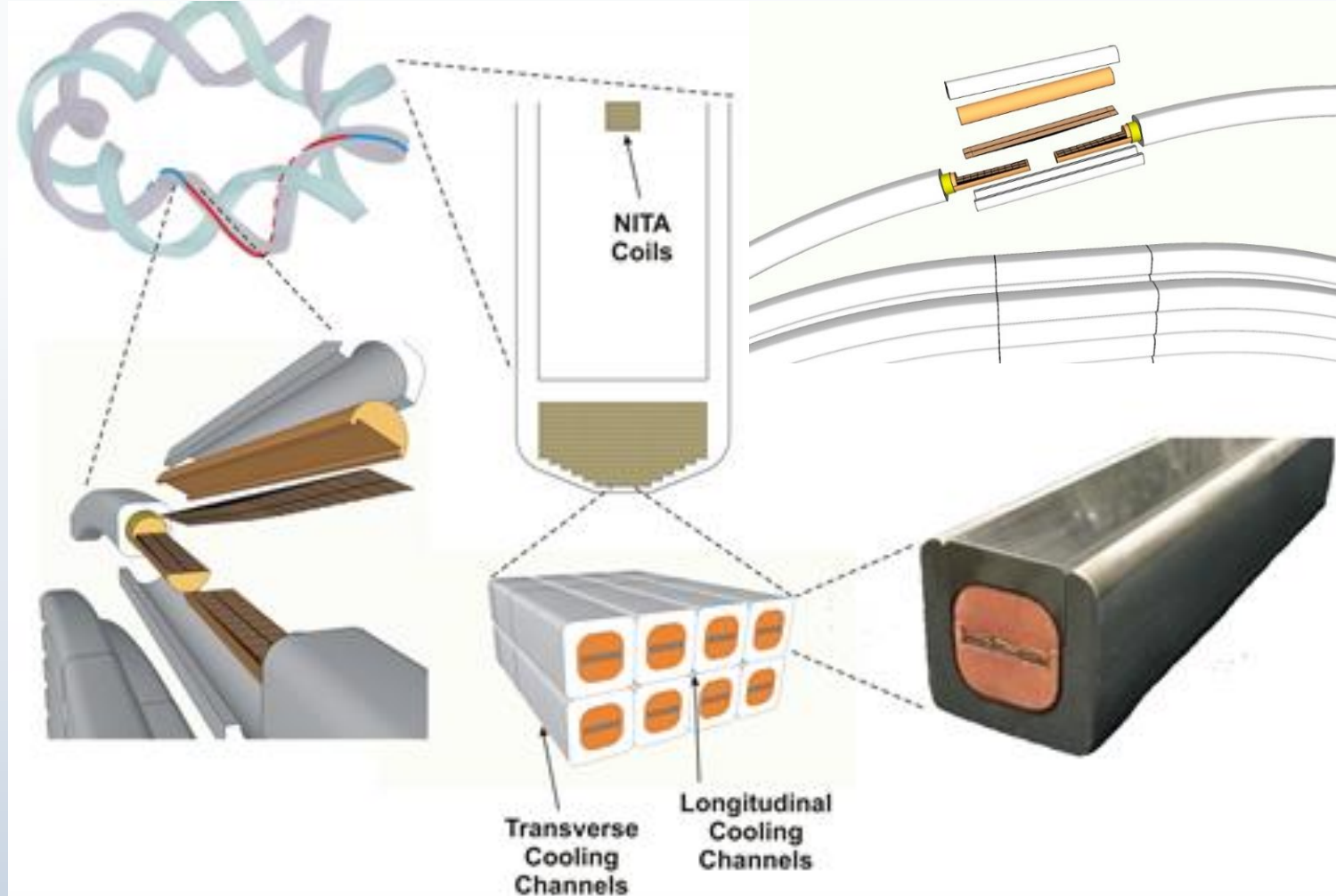


FIP/P7-11: N. Yanagi *et al.*, NIFS

“Helical Coil Design and Development with 100-kA HTS STARS Conductor for FFHR-d1”



- Magnet design with High-Temperature Superconducting (**HTS**) option is progressing for the helical fusion reactor
- Prototype conductor sample achieved 100 kA at 5.3 T, 20 K with high stability
- Analysis on quench protection, feasibility study of helium gas cooling