

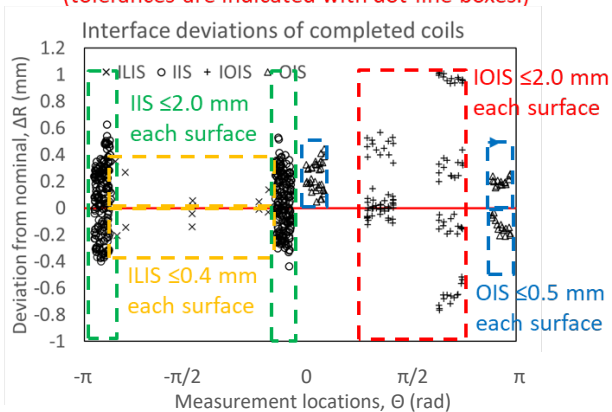
# Completion of the First ITER TF Coil in Japan

- The first ITER Toroidal Field Coil (TFC) has been successfully completed by Japan Domestic Agency (JADA).
- In the TFC fabrication, there were 3 major requirements and several challenges to achieve those requirements:

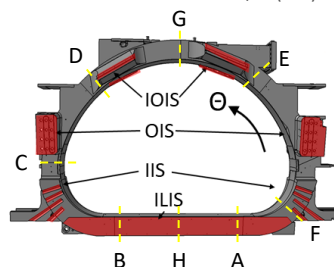
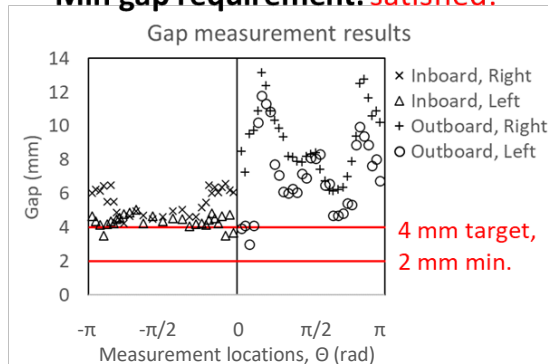
Requirements	Challenges
Intercoil interface tolerances	- Welding deformation control
Minimum gap requirement between winding pack (WP) and TFC structure (TFCS)	- High viscosity resin injection into the narrow gap - Maintaining the gap through TFCS welding
Current center line (CCL) positional tolerances	- Precise positioning of WP within TFCS - Maintaining WP shape and positions through fabrication steps

- The details of those challenges and the solutions established during preparation are introduced in the presentation along with the implementation results.

- Interface requirement: satisfied!**  
(tolerances are indicated with dot-line boxes.)



- Min gap requirement: satisfied!**



- CCL position requirement: satisfied!**  
(uncertainty range is shown with bars.)

