

Summary of PWI session

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Talks

- “PWI studies at LHD”, S. Masuzaki
 - Macroscopic and microscopic PWI studies in LHD were presented.
 - Mixed material layer is formed on the PFCs at deposition dominant area.
- “PSI studies at TJ-II”, Ana Belén Martín-Rojo
 - Liquid metal limiter experiments were presented.
 - Li and SnLi have been examined.
- “PSI studies at Uragan devices”, V.E. Moiseenko
 - Wall conditioning, modeling of RF discharge, and an in-situ surface monitoring method were presented.
- “Measurement of Limiter Particle Fluxes and Carbon Erosion in the Helical Scrape off Layer of Startup Plasmas in W7-X”, V. Winter
 - Results of postmortem surface analyses of the limiter tiles, and carbon observation using the filterscope/visible camera system in W7-X OP1.1 were presented.

Discussion

- S. Masuzaki proposed a joint research which aims to understand the mechanisms of the material migration in stellarator-heliotron devices.
 - Long term material probes on first wall, and divertor and/or limiter tiles should be analyzed.
 - The effects of various magnetic configurations in the devices have to be carefully considered.
 - Isotope gas injection experiment was proposed.
- “PWI session” should be in next CWGM.
 - Focusing on material migration studies
(The other topics can be proposed)