

Blankets for DEMO/Pilot Plant: ITER TBM and Other Facilities

- Review of ITER TBM technical targets and progress
- Preparation for DEMO and other next steps, what are required extensions to ITER TBM achievements
 - Introduction to multiple DEMO – level characteristics (n-flux, n-fluence, materials, temperatures, single-effect tests, integrated tests, HHF, plasma facing aspects, ancillary systems, etc..)
- CN, EU, JP, KO, EU, JA, RU, UK, US facility development/plans to support DEMO Blanket and next-step devices
 - ITER TBM facilities
 - DEMO-focused facilities for Blanket
 - Fuel cycle, material test, remote handling, cooling technology, tritium extraction technology, high heat flux, etc..

Blankets for DEMO/Pilot Plant: ITER TBM and Other Facilities

- Poster presentations:
 - Numerical analysis for optimization of circulation power in first wall of Indian helium cooled solid breeder blanket using He-CO₂ gas mixture
 - Qualification of EUROFER97 for TBM: contribution of the EUROfusion project within 2021-2025
 - Reactor studies of two-phase lithium ceramics in Kazakhstan
 - Capabilities and status of the IFMIF-DONES project
 - An approach for the pathway towards the development of high performance breeding blankets
 - Overview of the R&D of materials intended for DEMO and DONES at Lithuanian Energy Institute
 - Exploration of a compact DEMO reactor: constraints on shielding materials and HTS magnets from parameter-space scans
 - CPAF linear device for plasma materials exposure experiments