RT10: Fast ion physics with dominant ICRH heating (Kazakov/Bilato) – TFLs: AH/ET – machines: AUG/WEST

D1. Determine fast-ion characteristics, plasma performance, and transport in ICRF-heated scenarios in multiple machines in preparation for ITER PFPO and FPO operations.
D2. Provide essential diagnostics information for the characterization of confined and lost fast ions in plasmas relevant for ITER PFPO and FPO.
D3. Quantify Ti heating and core turbulence stabilization by ICRF-generated fast ions in view of ITER and DEMO.
D4. Integrate the available heating, fast-ion and transport modelling tools for interpretation of experimental results in view of ITER and DEMO.

RT11: Impact of MHD perturbations on fast ion losses and transport (M Garcia-Munoz; M. Vallar) – TFLs: BL/NV – machines: AUG/TCV/MAST-U

D1. Assessment of fast-ion transport and losses induced by MHD perturbations such as ELMs, NTMs, Sawtooth, Alfvén Eigenmodes and other relevant continuum fast-ion driven fluctuations.
D2. Identification of control actuators to minimize AE-induced fast-ion losses in view of ITER and DEMO.
D3. Optimization of fast-ion confinement in tokamaks with RMPs.