

IMP5 Summary D. Farina, T. Johnson, G. Vlad, IMP5 contributors

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https://www.efda-itm.eu/ITM/html/imp5_public.html



Parallel session discussion (1)

- Participation: ~10 people over 38
- Transition to 4.09a non trivial for IMP5: *major* release change of IMP5 CPOs
- Porting to 4.09a is under way for many codes
- Progress Report on:
 - Ion codes
 - SELFO-light (T Hellsten)
 - TORIC (R Bilato)
 - Electron codes
 - TRAVIS (N Maruschenko)
 - TORBEAM (E Poli)
 - GRAY (L Figini)
 - Fast Particle + Runaways + fusion products
 - MHD module in HYMAGYC (G Vlad)
 - ARENA (G Pokol)
 - ASCOT package for fusion products (S Akaslompolo)



- Short training on IMP5HCD workflow
- Datastructure 4.09b proposals
 - CPO changes: Antennas, Antennas(*)%ec (machine / reflectometry)
 - distsource: added special representation for thin-line source (NBI)
 - grid CPOs in IMP5 (?)
- Discussion on IMP5 needs (mainly equilibrium related)
 - (R,Z) and (rho,theta) mapping for psi
 - library for flux-averaged quantities of interest for IMP5 codes (?)
- IMP5 web page
 - many useful info inside (updated on a regular basis)
 - list of INPUT CPOs required by IMP5 codes in order to run either standalone workflow or in other workflows <u>https://www.efda-itm.eu/ITM/html/common_imp5_cpo_input.html</u>
 - list of OUTPUT CPOs filled by IMP5 codes



Parallel session discussion (3)

- 2012 activities/priorities
 - ITM code integration
 - ETS integration (How advanced models does ETS need ?)
 - exploration of synergies & self-consistency
 - code benchmarking
 - ? possible needs of new physics modules
- Innsbruck Code Camp
 - agreed IMP5 presence over the two weeks
 - week 1: code integration
 - week 2: ETS integration
 - overlap as much as possible during first week
 - expertise available both weeks
 - If possible do testing of modules with CPOs they will receive inside the ETS!