

Transport and Turbulence 5 year plan draft update

(T&T Task) Finish Thrust 2; add timeline

- Draft of all sections completed (probably too long), including: Thrust 2, remaining diagnostic & facility bits, theory simulation tools (including TRANSP/pTRANSP), timeline

(T&T Task) Expand momentum transport research in Thrust 1

- A few sections written in Thrust 2 will likely be moved to Thrust 1 (exp./sim. validation work)
- Still need to add detail on 3D fields & NCC

(General task) – Increase granularity, especially years 1-3

- Have tried to increase granularity in Thrust 2 Research Plan, will revisit Thrust 1
- Generally all prose -- is a bulleted list useful/necessary?

• To-do's:

- General organizational consistency of Thrust 1 (exp.sim. validation) and Thrust 2 (reduced model development & validation); Where to place 0D confinement scaling results/research plan
- Reference to Boundary “Pedestal Transport” regarding: (1) global/non-local turbulence issues coupling pedestal to core region (e.g. XGC-1 sims), and (2) H-mode boundary condition for predictive modeling
- Send diagnostic/facilities sections to Masa
- Formatting, figure numbers, references