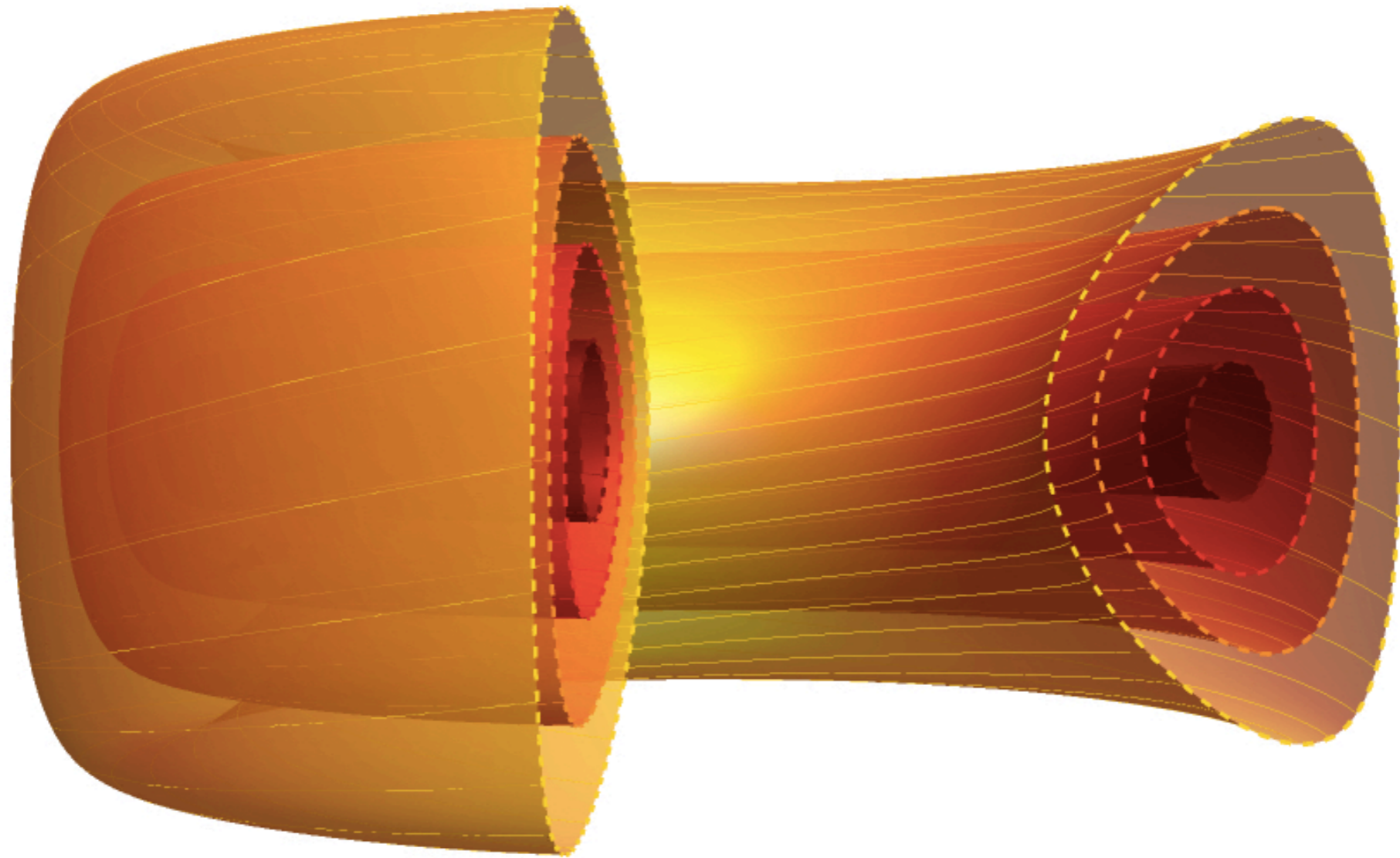


TSVV 2: Negative triangularity July meeting



Justin Ball
26 July 2022

Agenda

- **General updates**
- Roundtable discussion with team members
- Comments, questions?

Marconi reminder

- 40% through the allocation period (March 2022-Feb 2023)
- 38% of the following conventional A3 allocation has been used:
 - GENE: 450k node-hours = 110k (Alberto) + 160k (Justin) + 180k (MJ)
 - GBS: 175k node-hours
 - HYMAGYC: 50k node-hours
- 26% of the following GPU C1 allocation has been used:
 - ORB5: 75k node-hours

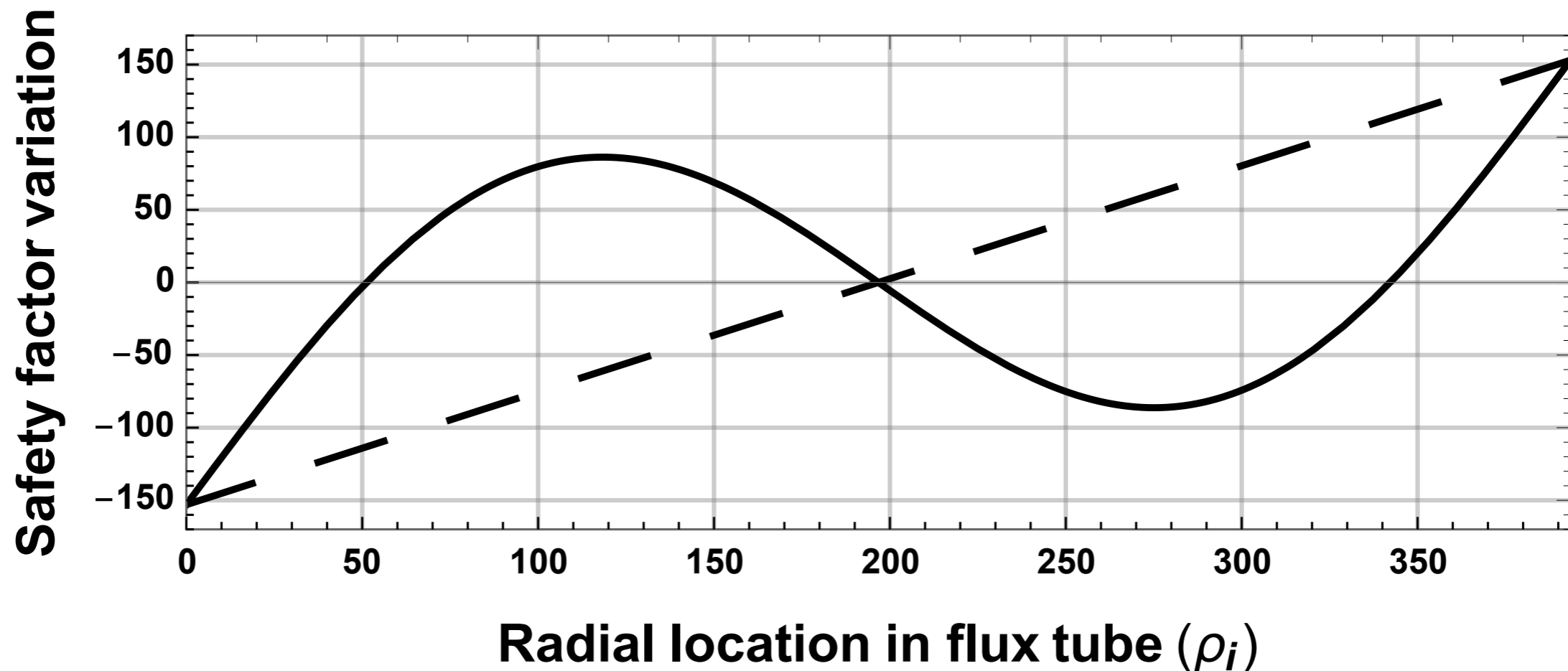
Agenda

- General updates
- **Roundtable discussion with team members**
- Comments, questions?

Importance of global effects in NT

G. Merlo, et al, *PPCF* **63** (2021).

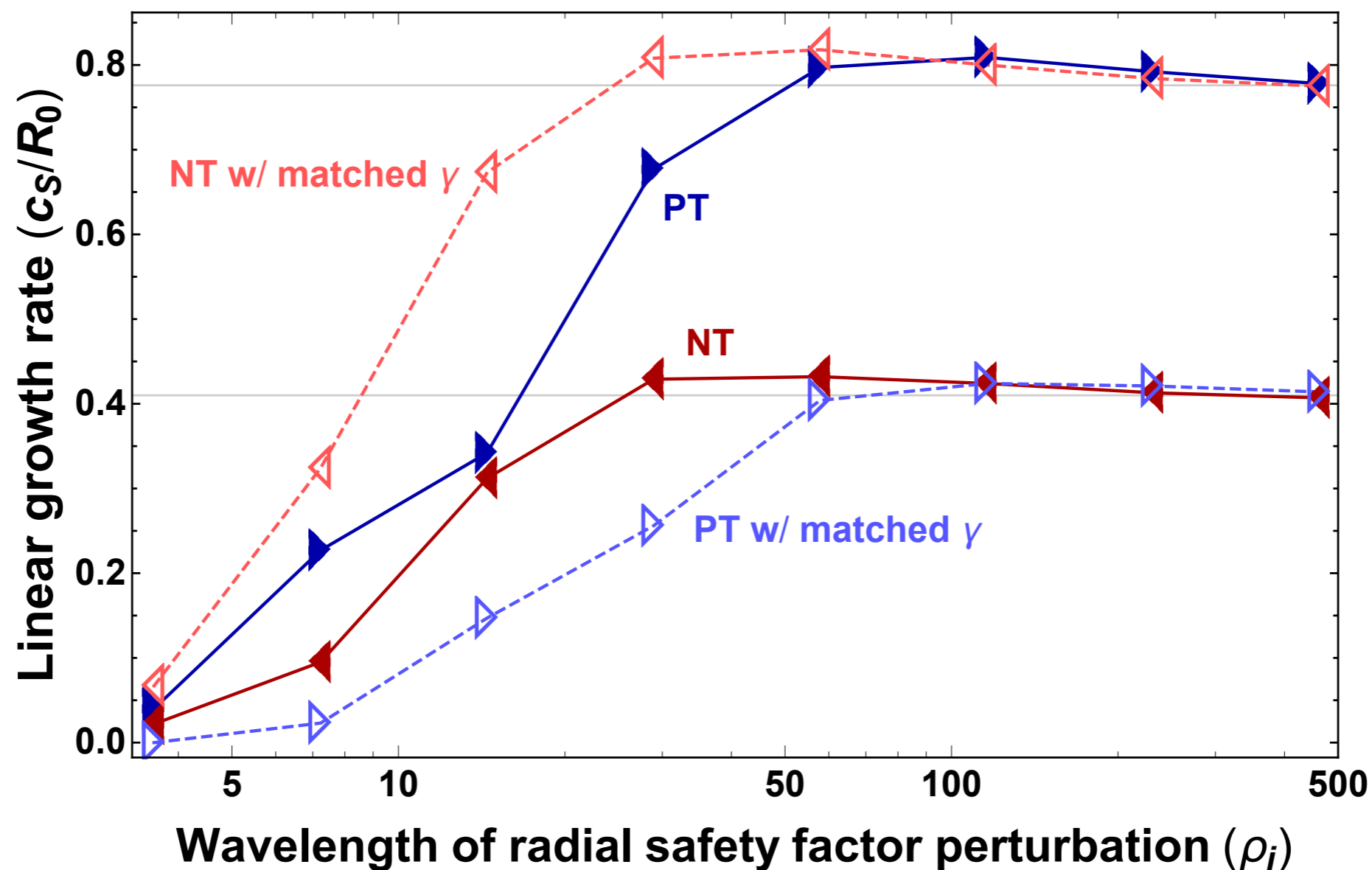
- Implemented arbitrary periodic safety factor profile in local GENE
- Use NT as an example test case



Global effects in linear simulations

G. Merlo, et al, *PPCF* **63** (2021).

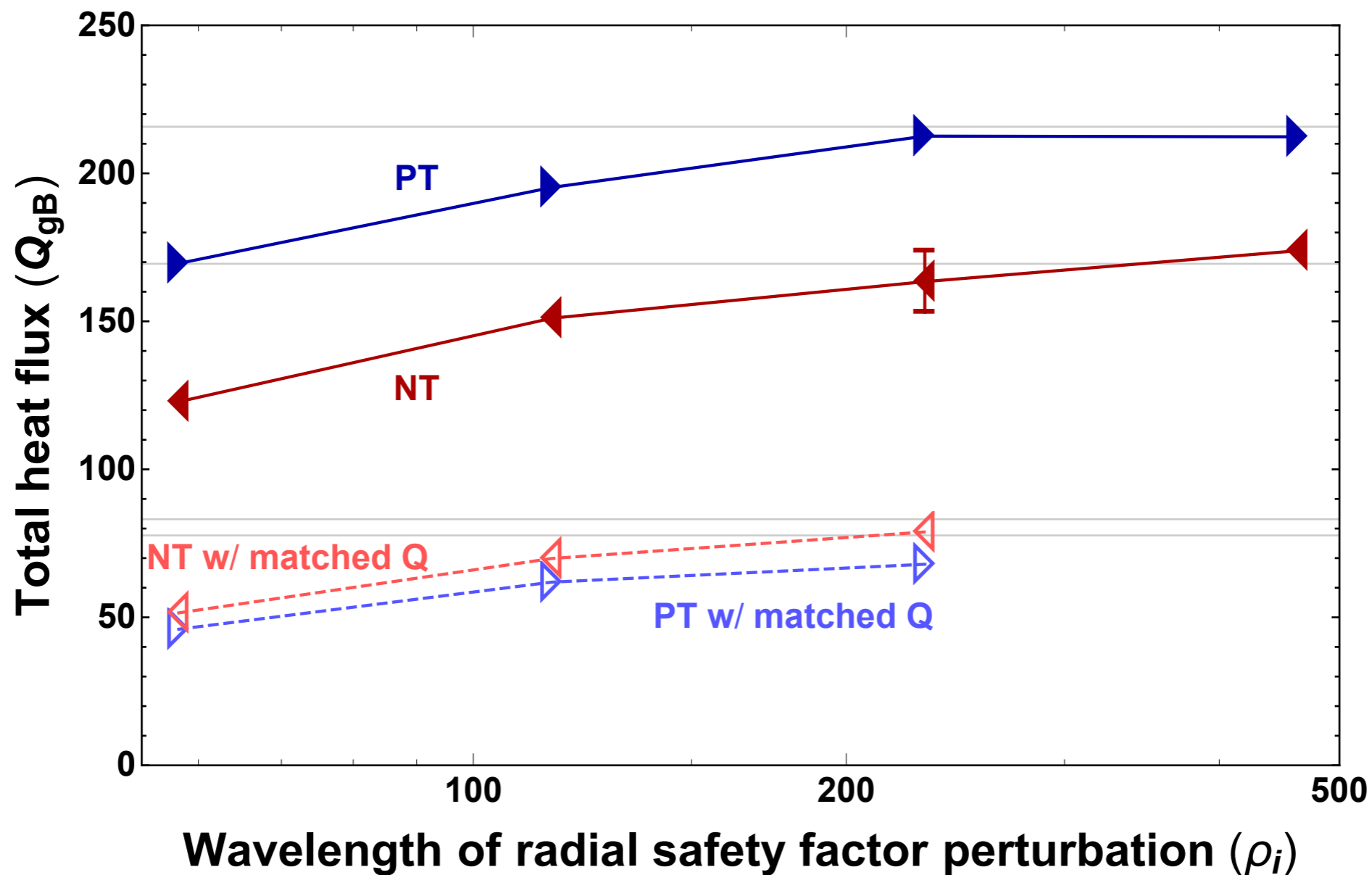
- Linear study, which might not be particularly representative, indicates that global effects are weaker in NT



Global effects in nonlinear simulations

G. Merlo, et al, *PPCF* **63** (2021).

- Nonlinear study shows little difference between PT and NT



Agenda

- EUROfusion updates
- Roundtable discussion with team members
- **Comments, questions?**