



EUROfusion

# Thrust 3: MHD & REs

*TSVV / ACH Projects 2021-2025*

**Carlo Sozzi for Thrust 3**



## Thrust 3: MHD & REs

*Facilitator:* **C. Sozzi**

*Involving:* M. Hölzl; E. Nardon; O. Mishchenko  
S. Brezinsek; I. Calvo;  
E. Joffrin; A. Hakkola  
F. Zonca, R. Coelho

[WPSA]  
[TSVV-8, -9, -10]  
[WPW7X, WPPWIE]  
[WPTE]  
[AC SB]

- **TSVV8: Integrated Modelling of MHD Transients**
- **TSVV 9: Dynamics of Runaway Electrons in Tokamak Disruptions**
- **TSVV 10: Physics of Burning Plasmas**

- A Thrust serves as a **communication platform among a group of related TSVVs and WPs, on behalf of the entire E-TASC SB.**
- The facilitator provides feedback on the Thrust activities and proposes corrective actions for the TSVV work programmes to the E-TASC SB if and when needed.



- Need of regular, bidirectional communication with experiments
  - Focusing tool development
  - Designing key experiments
  - Providing study/test cases
- Extending user community (closer to applications)
- How developers are connected with the experiments teams?
- Apparently TSVVs 8,9,10 will be mainly focused on developing the tools in 2021-2022 (or even later), before being ready for test vs data
- Communication with WPs outside the restricted list of Thrust 3 (avoiding unmanageable large meetings)

# Thrust 3 - Output of the discussion



- Thrust composition (after initial group of today) in terms of effective contacts list and corresponding mailing list
- Communication facilitated by a link to be opened in the TSVVs 8-9-10 wiki pages
- Decided to have first meeting in May, ~ half day with these objectives
  - “Stabilize” thrust composition
  - Input from PIs of the TSVVs about their objectives and items in the development plan
  - Input from the WPs to collect a first list of their
    - analysis needs, and
    - opportunity of test of the models/tools
  - Organize contact opportunities also for other WPs or EUFUFusion actors
  - Connection with the ACHs. Through the TSVVs Project & Scientific boards or also direct link, at least for specific issues?

# Tentative initial mailing list



<https://indico.euro-fusion.org/e/922>

[carlo.sozzi@istp.cnr.it](mailto:carlo.sozzi@istp.cnr.it), [mhoelzl@ipp.mpg.de](mailto:mhoelzl@ipp.mpg.de) , [eric.nardon@cea.fr](mailto:eric.nardon@cea.fr) , [ami@ipp.mpg.de](mailto:ami@ipp.mpg.de),  
[Gloria.falchetto@cea.fr](mailto:Gloria.falchetto@cea.fr) , [Emmanuel.JOFFRIN@cea.fr](mailto:Emmanuel.JOFFRIN@cea.fr), [s.brezinsek@fz-juelich.de](mailto:s.brezinsek@fz-juelich.de), [ivan.calvo@ciemat.es](mailto:ivan.calvo@ciemat.es) ,  
[Antti.Hakola@vtt.fi](mailto:Antti.Hakola@vtt.fi) , [fulvio.zonca@enea.it](mailto:fulvio.zonca@enea.it), [ruicoelho@ipfn.ist.utl.pt](mailto:ruicoelho@ipfn.ist.utl.pt)