

# TSVV4 Annual Meeting 2025

## TSVV4 Team

Garching, June 16-18

**MAX-PLANCK-INSTITUT**  
FÜR PLASMAPHYSIK



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# This meeting at a glance

## Welcome to IPP Garching!

- **Wi-Fi: “IPP\_Guests”** (no password needed)
- **Coffee breaks** will be served in the **L6-“Begegnungszentrum”**.  
(across the bridge, windowed room on the left)
- All sessions take place here (**L5 seminar room**)
- **Lunch at canteen** (+ some options outside of IPP campus)
- **Dinner: Tuesday**, after we finish, at **Biergarten Mühlenpark**  
(optional: **BYOF**; mandatory: **cash-only!**)



# Setup of TSVV Task 4

## Key deliverables

## Our work

**Kinetic codes for the  
plasma edge ▶ TSVV T1**

**GENE-X (IPP)  
PICLS (IPP/SPC)  
GyselaX (CEA)**

**Deal with open field lines**

**BIT1  
VOICE  
semi-analytical methods**

**Limitations of  
Gyrokinetics**

**ssV (hybrid)  
GempicX  
Moment-based edge GK**

**Coupling methods**

**Neutrals  
Impurities  
Fluid-kinetic coupling**





# Roadmap until the end of year 5



**You are here.**

**Very soon: New call for TSVVs in 2026/27**

**Deadline for proposals**

**Nov 4-5: EUROfusion Science Meeting**

**Mid Nov: New Pitagora/HPC proposals**

**Dec 31: Annual report**



## E-TASC & HPC status

EUROfusion **budget has been cut** (by ~30%) in favor of PPP.

New **ACH call** is already out (DL this week). **TSVV call** will follow any day.

There will be **fewer TSVV projects**, but the ones that stay will be similarly-sized as before. (critical mass)

It seems there will be a **TSVV 4 follow-up** project.

### HPC status:

**Pitagora** has come online in late May; accessible to us!  
**Leonardo** will be accessible until late July.

**Monday, June 23, 10:00:** „Intro to Pitagora“ webinar by CINECA



# This meeting at another glance

## About the agenda:

- Sessions are a **loose-fitting glove** → plenty of room for discussions

## Goals:

- **Physics discussions** based on presentations
- Connections between our key deliverables: e.g. getting sheath physics, neutral physics into all our GK codes
- If the new call arrives on time: digest and consider how to carry the project into 2026/2027