



EUROfusion



Ciemat

Centro de Investigaciones
Energéticas, Medioambientales
y Tecnológicas



Barcelona
Supercomputing
Center

Centro Nacional de Supercomputación

2nd Annual Meeting of EUROfusion HPC ACHs

Date: 27 – 28 November 2024

Place: Barcelona Supercomputing Center, Plaça Eusebi Güell, 1-3, 08034 Barcelona, Spain

27 November 2024, 09:00 – 17:30

09:00–09:05 Welcome – Mervi Mantsinen ACH-BSC/CIEMAT

9:05–9:15 Report of Team Leader ACH-EPFL– Gilles Fourestey

9:15–10:55 Reports from ACH-EPFL members (Chair: Gilles Fourestey)

- 20+5' Mathieu Peybernes – SOLEDGE3-X and SPEC
- 20+5' Emily Bourne – GYSELA
- 20+5' Gilles Fourestey – ASCOT5
- 20+5' Cristian Sommariva - JOREK

10:55–11:25 Break

11:25–13:05 Reports from ACH-EPFL members cont. (Chair: Gilles Fourestey)

- 20+5' Alessandro Mari - Free boundary equilibrium code (remote)
- 20+5' Emmanuel Lanti – ORB5 and GENE-3D
- 20+5' Nicola Varini – GBS and GRILLIX
- 20+5' Florian Cabot - Visualization tools - Real-time dynamics and ParaView solutions

13:05–14:30 Lunch

14:30–14:40 Report of Team Leader ACH-BSC/CIEMAT – Alejandro Soba

14:40–15:55 Reports from ACH-BSC/CIEMAT members (Chair: Alejandro Soba)

- 20+5' Gaurav Saxena and David Vicente – SOLPS-ITER and SPEC
- 20+5' Alejandro Soba – SPICE
- 20+5' Federico Cipolletta – JOREK

15:55–16:15 Break

16:15–17:30 Reports from ACH-BSC/CIEMAT members cont. (Chair: Alejandro Soba)

- 20+5' Carlos Romero – GENE-X and BOUT++
- 20+5' Aina Gomez, Valentin Seitz, Joan Vinyals and Marta Gasulla – STELLA and ERO2.0

- 20+5' Xavier Saez, Augusto Maidana and Eduardo Cabrera – ERO2.0, BIT1 and XTOR-K

17:30 End of day 1 technical programme

20:00 Meeting Dinner (Citrus Restaurant, [Pg. de Gràcia, 44, L'Eixample, 08007 Barcelona](#))*

**Each participant is responsible for covering their own costs.*

28 November 2024, 09:00 – 16:30

09:05–09:15 Report of Team Leader ACH-MPG – Roman Hatzky

09:15–10:30 Reports from ACH-MPG members (Chair: Roman Hatzky)

- 20+5' Ihor Holod – JOREK (remote)
- 20+5' Serhiy Mochalsky – Analyzing real code performance efficiency on the MARCONI supercomputer with the hpcmd tool
- 20+5' Tiago Ribeiro – GVEC

10:30–10:50 Break

10:50–11:40 Reports from ACH-MPG members cont. (Chair: Roman Hatzky)

- 20+5' Huw Leggate (DCU) – EIRENE
- 20+5' Max Lindqvist - STRUPHY

11:40–12:30 MareNostrum tour

12:30–14:00 Lunch

14:00–14:30 Experiences with MARCONI & LEONARDO (Chair: Xavier Saez / Alejandro Soba)

14:30–15:15 Discussion on current projects (Chair: Roman Hatzky)

15:15–16:15 Discussion of relevant topics (Chair: Gilles Fourestey)

- News from E-TASC General meeting
- Efficient porting of GPU codes
- Implementation of EUROfusion Standard Software
- Recruiting/manpower situation within ACHs

16:15–16:30 Organizational issues (Chair: Gilles Fourestey)

- Next meeting
- AOB

16:30 End of meeting