

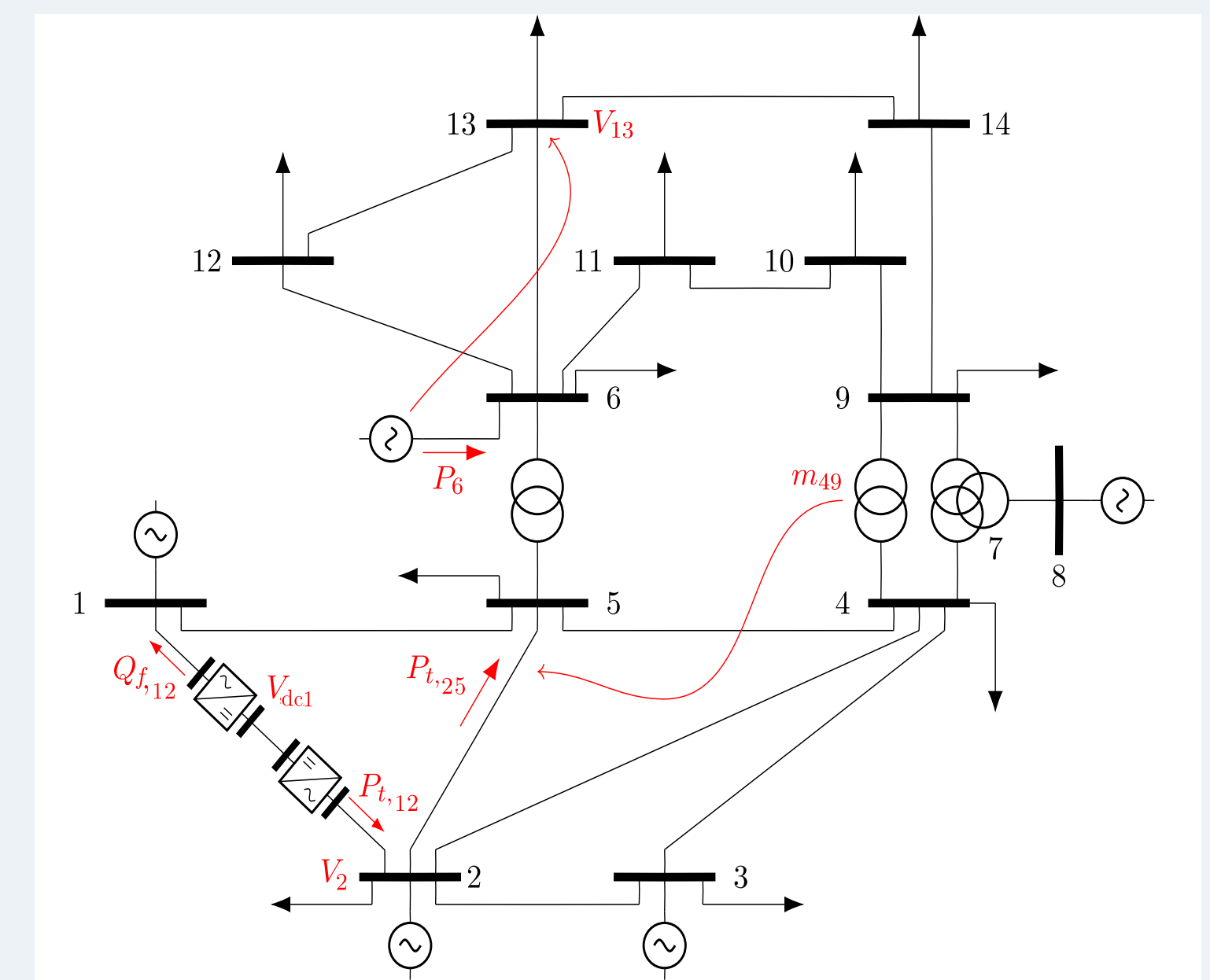
Large Scale Systems Week - Training Day

Monday 02.12.2024

AC/DC power flow aimed at large scale systems

- Josep Fanals Batllori (eRoots, Barcelona)

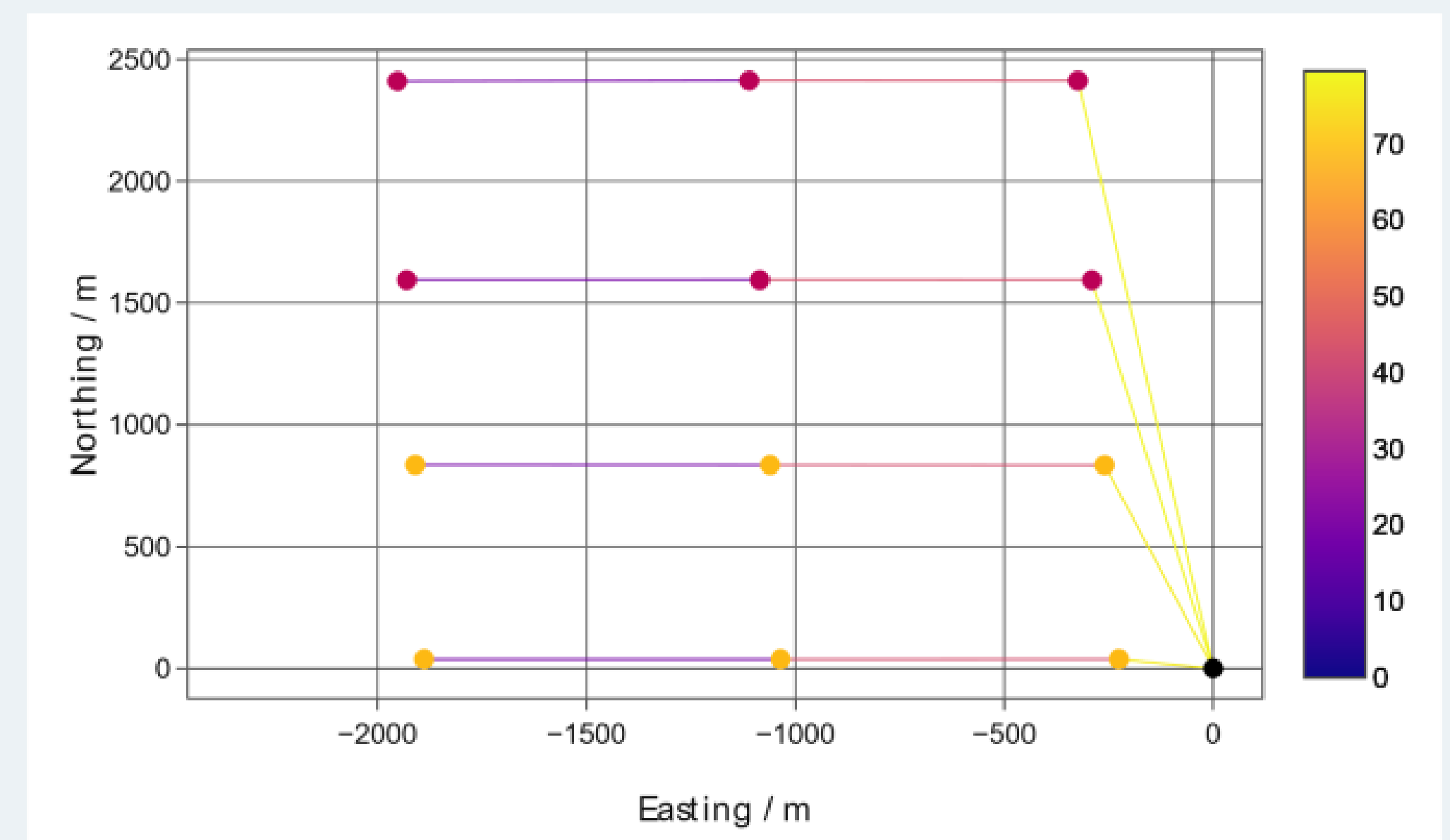
- Examination of the **AC/DC power flow problem** in grids where both alternating current (AC) and direct current (DC) networks coexist
- **Training based on GridCal**, an open-source tool written in Python, populated with cutting-edge functionalities aimed at planning power grids more efficiently



Q-Sim: Modular Large-Scale Simulation Platform

- Marcus Wiens (Fraunhofer IWES, Bremerhaven)

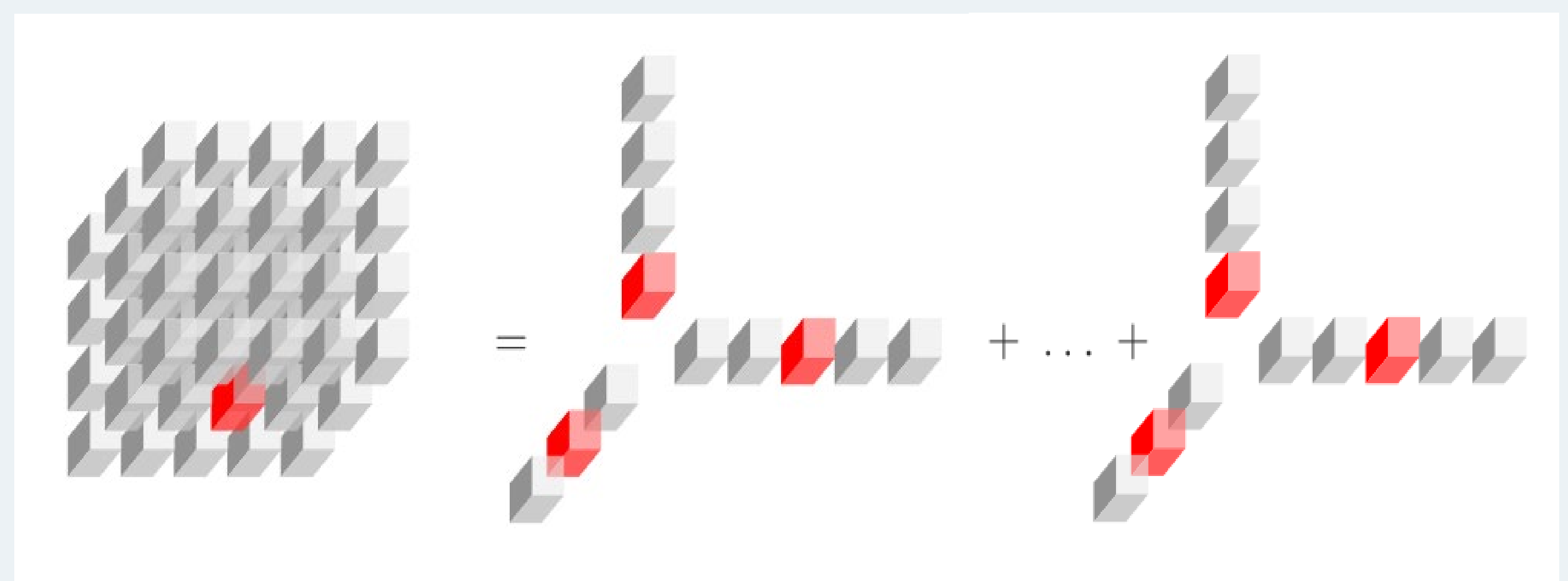
- Learn how to create a **co-simulation of large-scale systems** in a systematic and modular way
- Use of Functional Mock-up Units (FMUs) and bond graphs
- Live example: **Wind farm simulation** for the estimation of cable temperatures



Multilinear modeling with the MTI-Toolbox for MATLAB

- Gerwald Lichtenberg and HAW/ILES Team

- Get to know tools for **multilinear modeling**, simulation, and analysis in MATLAB
- Hands-on exercises by tutorial examples
- **Bring your own problem** and develop an MTI solution strategy them with the help of the team



Please apply until 19.11.

Additional information and application: [HAW-Hamburg: Large Scale Systems Week](#)

The workshop will be free of charge but needs your own device (Laptop with MATLAB)

For further questions please contact: sabine.teichmueller@haw-hamburg.de

Address: Finkenau 35, 22081 Hamburg, Germany

Location: Room Forum Finkenau (Building B), HAW Hamburg

Additional information and application:

