

## TIME-X: SDC and variants for eXascale Computing

### Schedule:

- Monday
  - from 13.00: Lunch in the FZJ Cantine (details will follow)
  - 14.15 welcome
  - 14.30-15.30:
    - **Thomas Baumann**: Adaptive step size selection in SDC
    - **Ikrom Akramov**: Using a Reduced Model as an initial guess for the Spectral Deferred Correction Method
  - 15.30-16.00 coffee break and discussions
  - 16.00-17.00:
    - **Joerg Stiller**: Towards robust SDC methods for flow problems
    - **Abdelouahed Ouardghi**: A spectral deferred correction finite element method for fluid simulations
  - from 18.00: dinner at “Einhorn” in Jülich
- Tuesday
  - 09.00-11.00:
    - **Alex Brown**: Applying Spectral Deferred Correction methods to the next-generation of weather forecasting models
    - **Jan Philip Freese**: Accelerating ICON-O: Exploring Parallel SDC for Ocean Model Performance
    - **Judith Angel**: Bathymetry Reconstruction in a Water Channel
    - **Lisa Wimmer**: Spectral Deferred Corrections applied to Differential-Algebraic Equations
  - 11.00-11.30 coffee break
  - 11.30-12.30
    - **Sriramkrishnan Muralikrishnan**: Parallel-in-time integration with Parareal for kinetic plasma simulations
    - **Sebastian Götschel**: Parareal with a Physics-Informed Neural Network as Coarse Propagator
  - 12.30 farewell
  - from 13.00 Lunch in the FZJ Cantine