

DESY-TEMF Meeting

Monday, December 4, 2023, 09:00 to 16:00

DESY, Hamburg, Seminar Room 3, Building 1b, 2nd floor

09:00 – 10:30 *Development of Numerical Methods*

Frederik Quetscher: Domain Decomposition for Guided Wave Problems (20+10)

Chao Li: Development of multi-particle simulation code CETASim to study the collective effects in the light sources (20+10)

Martin Dohlus: CC2 - Continuous Charge Approach Continued (20+10)

10:30 – 11:00 *Coffee Break*

11:00 – 11:30 *Slow Resonant Extraction*

Cris Garcia: Introduction and simulation of slow resonant extraction for the test beam line at DESY4 (20+10)

11:30 – 11:50 *Fast ramped Magnets*

Jan-Magnus Christmann: Fast Corrector Magnet Studies - Summary and Efforts Towards Nonlinear Simulations (15+5)

11:50 – 15:00 *Guns, Couplers and Cavities*

Simon Karau: Numerical Optimization of the Shintake Cavity (15+5)

Dmitry Bazyl: CW SRF photo injector development at DESY (15+5)

12:30 – 14:00 *Lunch Break*

Jonas Christ: Progress of Coupled Space Charge and Wakefield Simulations (15+5)

Wolfgang Ackermann: Eigenvalue Calculations of a TESLA Cavity including the Fundamental Power Coupler (15+5)

Leon Kronshorst: Assessment of Different Geometries for Single-Mode Cavities (15+5)

15:00 – 15:30 *Coffee Break*

15:30 – 16:00 *General Discussion*

16:00 *End of Meeting*