

DESY-TEMF Meeting

Thursday, June 1, 2023, 09:00 to 16:00

DESY, Hamburg, Building 24, Room 200

09:00 – 10:00 *Undulator Impedances and Laser Plasma Acceleration*

Frederik Quetscher: Shunt Impedance Simulations for an IVU at PETRA IV (20+10)

Sergey Antipov: Energy compressor for PWA injector for PETRA IV (20+10)

10:00 – 10:30 *Machine Learning*

Bianca Veglia: (Some) Machine Learning Activities at DESY (20+10)

10:30 – 11:00 *Coffee Break*

11:00 – 11:40 *Fast ramped Magnets*

Jan-Magnus Christmann: Finite Element Simulation of Fast Corrector Magnets for PETRA IV (25+15)

11:40 – 15:00 *Guns, Couplers, and Cavities*

Jonas Christ: Coupled Space Charge and Wakefield Simulation of a Retracted Gun (20+10)

Erion Gjonaj: Beam dynamics study of a CW L-band SRF gun for the High Duty Cycle EuXFEL (10+10)

12:30 – 14:00 *Lunch Break*

Wolfgang Ackermann: Increasing Qext of a cavity without modifying the coupler (15+10)

Leon Kronshorst: The Single-Mode-Cavity proposed by H. Herminghaus (10+10)

Wolfgang Müller: Third Harmonic Cavity Simulations for PETRA IV (10+5)

Sergey Tomin: IBS measurements and simulations (10+5)

15:00 – 15:20 *Coffee Break*

15:20 – 16:00 *General Discussion*

16:00 *End of Meeting*