Session Program

May 13, 2026

KfB-Verbundforschungsworkshop "Teilchen 2027-2030"

Kurzvorstellung der Projektvorschläge der Universitäten

online, Zoom

Wed, May 13

11:00 AM

Kurzvorstellung der Projektvorschläge der Universitäten

Session | **Location:** online, Zoom | **Convener:** Florian Hug

11:03 – 11:06 AM **Projects in Proton-driven Plasma Wakefield Acceleration**

Speaker
Allen Caldwell

11:06 – 11:09 AM **Coupling Beam Dynamics and Wakefields for CSR wakes**

Speaker
Jonas Christ

11:09 – 11:12 AM
Studying systematic effects in storage rings for EDM measurements

Speaker
Kurt Aulenbacher

11:12 – 11:15 AM **Photoemission study of nanostructured plasmonic photocathodes**

Speaker
Margarita Bulgacheva

11:15 – 11:18 AM
R&D for Future Circular Collider Applications with Stored Spin Polarized Electron Beams at ELSA

Speaker
Michael Switka

11:18 – 11:21 AM **HTS-Magnettechnologie**

Speaker
David Saez de Jauregui

11:21 – 11:24 AM **Additive Manufacturing (AM) for Efficient Particle Accelerators**

Speaker
Michael Mayerhofer

11:24 – 11:27 AM **Ion Bunch Energy Acoustic Tracing (IBEAT)**

Speaker
Prof. Jörg Schreiber

11:27 – 11:30 AM **Pulsed carrier-envelope-phase detection for beam stabilization**

Speaker
Benedikt Krause

11:30 – 11:33 AM **Additive Manufacturing of an Ionization Profile Monitor (IPM) Grid**

Speaker
Stephan Klaproth

11:33 – 11:36 AM

Temporal electron beam measurements of a pulsed electron lens for space charge compensation

Speaker
Stephan Klaproth

11:36 – 11:39 AM **Beam Dynamics for reaching best energy spread in ERLs**

Speaker
Florian Hug

11:39 – 11:42 AM **Longitudinal ERL Beam Dynamics for High Efficiency Injection**

Speaker
Florian Hug

11:42 – 11:45 AM

Fast Rective Tuner Developments for Sustainable Operation of SRF Systems

Speaker
Florian Hug

11:45 – 11:48 AM **Co-sputtering optimization for QPR tests - Nb3Sn at ATFT**

Speaker
Márton Major

11:48 – 11:51 AM **Polarization & spin tracking in plasma accelerators**

Speaker
gudrid moortgat-pick

11:51 – 11:54 AM

FEM-Based State Space Concatenation for Coupled RF Cavity Simulation

Speaker
Sosoho-Abasi Udongwo

11:54 – 11:57 AM

Optimization and modeling of a Fast Reactive Tuner for 1.3 GHz TESLA cavities at MESA

Speaker
Prof. Simon Adrian

11:57 AM – 12:00 PM **Multiscale numerical modeling of superconducting RF cavities**

Speaker
Simon Adrian

12:15 PM