

HFHF IAP-GSI Winter Seminar 2026

Riezlern, 22.2-28.2.2026

Supported by

Professor Gerhard Lander Foundation and HFHF

Chair: H. Podlech
Co-Chair: F. Maimone

Sunday, 22.2.2026

18.00: *Dinner*

Convener: H. Podlech

19:00: Welcome (**H. Podlech**)

19:10: Platform for relativistic Electron Cooler and other Experiments (**J. Dietrich**)

19:30: GSI IOS-ECRIS: Advancements, Activities and Upcoming Challenges (**F. Maimone**)

19:50: The Hubble Bubble Challenge (**H. Podlech**)

20:30: Deep Sky Impressions from Darmstadt (**H. Podlech**)

Monday, 23.2.2026

Convener: H. Hähnel

17:00: Impedance Studies of the HL-LHC Collimators (**J. Sonpar**)

17:25: CMOS Camera-Based Observation and Characterization of Multipacting during Cavity Conditioning (**L. Bauer**)

18.00: *Dinner*

19:00: The new Door Locking/Interlock System Ion Sources at GSI (**H. Höltermann**)

19:20: The Heidelberg Heavy Ion Beam Gantry Experience and some more Gantries (**M. Galonska**)

19:45: Characterization of a Wall stabilized Plasma Window Arc Discharge and its Impact on the Transmission Properties of Heavy Ion Beams (**A. Michel**)

20:05: Development and Testing of a Plasma Lens for Proton Beam Focusing at CALA (**G. Schmidt**)

20:25: Experimental Realization of an Active Plasma Lens for the Collimation of Laser-Accelerated Proton Beams (**M. Dehmer**)

20:45: Conway's game of life showing emergence via 2D simulations (**M. Händler**)

Tuesday, 24.2.2026

Convener: G. Franchetti

17:00 Machine Protection Challenges for FCC-ee (**Ch. Wiesner**)

17:30 Dust charging Experiments at LASP (**P. Ziegler**)

18.00: *Dinner*

19:00: Neutrons as a Unique Probe: Applications in Materials Science, Biology, and Beyond (**P. Zakalek**)

19:30: FLIPS: A Simple-Mirror Plasma Source and Accessible Testbench for Plasma Physics and Heavy-Ions High-Intensity Beam Studies (**A. Pitadella**)

20:00: Laser-Driven Dielectric Accelerators: Concepts, Challenges and Perspectives (**G. Torrisi**)

20:30 High-intensity effects during transition energy crossing in the CERN PS (**M. Bozatzis**)

20:50: Development of a new broadband medium-voltage divider (**T. Knautz**)

Wednesday, 25.2.2026

Convener: U. Ratzinger

17:00: PANDORA: a new ECR Ion Trap for probing nuclear beta decays in astrophysical conditions (**E. Naselli**)

17.30: TbA (**S. Udrea**)

18.00: *Dinner*

19.00: Recent Developments at MedAustron Ion Therapy Center (**N. Gambino**)

19:30 ML-based automated conditioning: First experiment and tasks ahead (**S. Wagner-Rossel**)

20:00: Neutron Moderators for pulsed sources (**J. Voigt**)

Thursday, 26.2.2026

Convener: F. Maimone

17:00 Optical Emission Spectroscopy for Beam Stability Monitoring and Plasma Characterization at MedAustron (**P. Galeazzo**)

17:30 FRANZ – Beadpull Measurements (**P. Müller**)

18.00: *Dinner*

19:00: First Beams at FRANZ and ADDLINAC (**H. Hähnel**)

19:30: H-mode cavities and frequency band structure (**U. Ratzinger**)

Friday, 27.2.2026

Convener: H. Podlech

09:15: Beam Loss Studies at the ESR (**A. Sherjan**)

09:35 One- and Two-Plane Multiturn injection (**A. Lauterbach**)

09:55 Novel method of mitigating periodic resonance crossing (**G. Franchetti**)

10:40 Closing Remarks (**H. Podlech**)