

## HICforFAIR Workshop

### "Current Topics in Accelerator-, Astro- and Plasmaphysics"

March 8<sup>th</sup> – 14<sup>th</sup> 2020,  
St. Michael im Lungau

### Programme

#### Monday March 9<sup>th</sup> 2020

**Holger Podlech**

HBS and Compact Accelerator Driven Neutron Sources

20 min

**Nils Petry**

HBS Prototype Studies

20 min

**Marius Rimmler**

Proton Beam Multiplexer Developments for Multi-Target Operation at the High-Brilliance Neutron Source HBS

20 min

**Stephan Wagner**

Investigation of the Required Tolerances for CH Structures

20 min

**Marc Syha**

Compact RFQ Beam Dynamics Layout

20 min

**Maximilian Schütt**

Ladder RFQ - Finalization of Manufacturing towards FAT

20 min

**Tuesday March 10<sup>th</sup> 2020**

<b>Marcus Iberler</b> IAP Plasma Physics Activities for FAIR	20 min
<b>Marius Dehmer</b> Entwicklung und Untersuchung einer DBE-Plasmafackel	20 min
<b>Leon Geiger</b> X-ray sources generated by nanosecond lasers for the diagnosis of dense plasmas at FAIR	20 min
<b>Jürgen Struckmeier</b> Liouville's Theorem --- Fundamentals and Applications	30 min
<b>Jürgen Dietrich</b> Status of Relativistic Electron Coolers	20 min
<b>Christian Trageser</b> MTCA based LLRF Server	20 min

**Wednesday March 11<sup>th</sup> 2020**

<b>Marco Busch</b> SC RF Activities at IAP	20 min
<b>Markus Basten</b> Cavity measurements at IAP, HIM and GSI	20 min
<b>Thorsten Conrad</b> Superconducting Cavity Design for HELIAC	20 min
<b>Huifang Wang</b> Measurements of Q factor at cryogenic temperatures for studying the anomalous skin effect	20 min
<b>Klaus Kümpel</b> Status of MYRRHA at IAP	20 min
<b>Sara Zimmermann</b> Automatisierung von HF-Leistungstests der MYRRHA CH-Driftröhren-Kavitäten	20 min

**Thursday March 12<sup>th</sup> 2020**

**Serban Udrea**

Particle Loss Reduction for the FAIR pbar Separator

20 min

**Ulrich Ratzinger**

Towards higher acceleration frequencies?

20 min

**Jan Kaiser**

Transversal focussing with small permanent magnets

20 min

**Ezgi Sunar**

Double Harmonic Buncher Design

20 min

**Rudolf Tiede**

Longitudinal Component of Beam Space Charge Calculation with LORASR

20 min

**Friday March 13<sup>th</sup> 2020**

**Giuliano Franchetti**

TBA

20 min

**Giulia Russo**

Analysis of Non-linear Beam Dynamics in the CERN PS Ring

20 min

**Annemarie Lauterbach**

Reconstruction of Teng Parameters using Independent Component Analysis (ICA)

20 min