

HFHF



Welcome to the HFHF IAP – GSI Winter Seminar

St. Michael im Lungau, Austria

25.2 – 2.3. 2024

Organisation

H. Podlech

R. Hollinger

F. Maimone

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34 Janik Kämper	Janik_kaemper@arcor.de

Zimmer	Name	Vortrag	
1 Einzel	Marcus Iberler	Ja	IAP
2 Einzel	Ulrich Ratzinger	Ja	IAP
3 Einzel	Alwin Schempp	Nein	IAP
4 Einzel	Fabio Maimone	Ja	GSI
5 Einzel	Ralph Hollinger	Ja	GSI
6 Einzel	Jürgen Dietrich	Ja	Uni Do
7 Einzel	Ralph Aßmann 25.2-28.2	Ja	GSI
8 Einzel	Holger Höltermann	Ja	Bevatech
9 Einzel	Michael Meier	Ja	GSI
10 Doppel	Piotr Kowina	Ja	GSI
11 Doppel	Paul Zakalek 25.2-1.3	Ja	FZJ
	Doruntin Shabani 25.2-1.3	Ja	FZJ
12 Doppel	Gustav Schmidt	Ja	IAP
	Marius Dehmer	Ja	IAP
13 Doppel	Annemarie Lauterbach	Ja	IAP
	Jiangyan Yang	Ja	GSI
14 Doppel	Giuliano Franchetti	Ja	GSI/IAP/HFHF
15 Doppel	Holger Podlech	Ja	IAP/HFHF
16 Doppel	Markus Vossberg	Ja	GSI
	Patrick Müller	Ja	IAP
17 Doppel	Serban Udrea	Ja	GSI
18 Doppel	Michael Galonska	Ja	GSI
19 Doppel	Tobin Knautz	Ja	GSI
	Janik Kämper	nein	GUF
20 Fam	Ingrid Sole	Ja	CERN/IAP
	Dora Veres 25.2-29.2	Ja	CERN/IAP
21 Fam	Areso Sherjan	Ja	IAP
	Leonie Bauer	Ja	GUF
	Virginia Britten	Ja	IAP
22 Fam	Peter Braun	Ja	IAP
	Julius Storch + Hund	Ja	IAP
23 Fam	Julius Sonpar	Ja	IAP
	Michael Händler	Ja	IAP
	Stephan Wagner	Ja	IAP

Name	Vortrag	Zeit
Prof. Dr. Holger Podlech	Advanced Methods in Digital Astrophotography	60
Prof. Dr. Ulrich Ratzinger	The Anomalous Skin Effect and Cold Copper Resonators	45
Prof. Dr. Alwin Schempp	Nein	0
Dr. Marcus Iberler	Dezentralisierung der Energieversorgung und ihre Probleme	30
Ingrid Sole	Bunch-by-Bunch Tune Shift Studies for LHC-Type Beams in the CERN SPS	25
Dora Veres	Possibility of Combining Stable Islands and Bent Crystals for Slow Extraction	25
Stephan Wagner	Thermal Investigations at MYRRHA and Automated Conditioning	30
Peter Braun	Preparation of High Power Conditioning of the MYRRHA cavities	15
Julius Storch	Simulation of the Operational Stability of Cavities, including Fluid Dynamics & Concepts for 3D-Printed Cavities	20
Tobin Knautz	Simulation of a Medium Voltage Divider for Powerized	30
Annemarie Lauterbach	Multi Turn Injection	20
Marius Dehmer	Design and Investigation of a Plasma Lens for Focusing a Proton Beam at LIGHT	20
Areso Sherjan	Beam Dynamics Simulations and Tests on Scraped Beams in VLE Beamline	30
Leonie Bauer	Comparison of Low-Light Cameras for Beam Diagnostics	20
Gustav Schmidt	Underwater Electric Wire Explosion Experiment	15
Michael Händler	Investigation of an ECR-Ion Source using the Simulation Program IBSimu	20
Virginia Britten	Influences of Beam Parameters on the Interaction Between Proton and Electron Beams	20
Dr. Paul Zakalek	The Jülich High Brilliance Neutron Source Project - Current status and developments	30
Doruntin Shabani	Investigation of the ^{99}Mo production via neutron capture $^{98}\text{Mo}(n,\gamma)^{99}\text{Mo}$ with a high-current accelerator-based neutron source	25
Prof. Dr. Jürgen Dietrich	Status of the Turbo-Generator for a Relativistic Electron Cooler	20
Dr. Ralph Aßmann	Challenges and Activities at the GSI Accelerator Facility	30
Dr. Fabio Maimone	Performance of the ECR Ion Source at the High Charge State Injector (HLI) of GSI	20
Dr. Ralph Hollinger	Ion Extraction	30

Dr. Michael Galonska	Mixed Carbon and Helium Ion Beams for Simultaneous Heavy Ion Radiotherapy and Radiography: an Ion Source Perspective	30
Dr. Markus Vossberg	Operating and Reliability	20
Prof. Dr. Giuliano Franchetti	Dynamics of Kicked Beams	30
Dr. Michael Maier	Coupling of Heavy Ion Beams - boon or bane	30
Dr. Serban Udrea	2D BIF Transverse Beam Profile Measurements at LHC	20
Jiangyan Yang	Investigations of Transit Times for Tune Scan of Slow Extraction at GSI SIS18	20
Holger Höltermann	Commissioning of the KoBRA Buncher for RAON	20
Dr. Piotr Kowina	Introduction to Spectrum Analysis - Aufbau eines Spektrum-Analysators	45
Patrick Müller	Preparation Protocol for Superconducting CH Cavities	20
Julian Sonpar	Rapid Prototyping of a Resonator using FDM-3D-Print und Galvanic Copper Plating	20

Name	Anreise	Noch freie Plätze
Prof. Dr. Holger Podlech	Eigener PKW	
Prof. Dr. Ulrich Ratzinger	Eigener PKW	1
Prof. Dr. Alwin Schempp	Eigener PKW	
Dr. Marcus Iberler	Eigener PKW	
Ingrid Sole	Anreise von CERN	
Dora Veres	Anreise von CERN	
Stephan Wagner	Eigener PKW	
Peter Braun	Mitfahrer J. Storch	
Julius Storch	Eigener PKW	
Tobin Knautz	Eigener PKW	2x Rückfahrt 2.3
Annemarie Lauterbach	Mitfahrerin M. Händler	
Marius Dehmer	Eigener PKW	
Areso Sherjan	Mitfahrerin G. Franchetti	
Leonie Bauer	Mitfahrerin bei S. Wagner	
Gustav Schmidt	Mitfahrer M. Dehmer/M. Händler	
Michael Händler	Eigener PKW	
Virginia Britten	Zug	
Dr. Paul Zakalek		
Doruntin Shabani		
Prof. Dr. Jürgen Dietrich	Eigener PKW	
Dr. Ralph Aßmann	Eigener PKW	
Dr. Fabio Maimone		
Dr. Ralph Hollinger		
Dr. Michael Galonska		
Dr. Markus Vossberg		
Prof. Dr. Giuliano Franchetti	Eigener PKW	
Dr. Michael Maier	Eigener PKW	
Dr. Serban Udrea	Mitfahrer S. Wagner	
Jiangyan Yang	Mitfahrerin M. Maier	
Holger Höltermann	Eigener PKW	
Dr. Piotr Kowina		
Patrick Müller	Mitfahrer J. Storch	
Julian Sonpar	Mitfahrer U. Ratzinger	
Janik Kämper	Mitfahrer bei T. Knautz	

Program:

Sunday, 25.2. (Chair: U. Ratzinger)

- 19.00 **H. Podlech/R. Hollinger:** Welcome and Infos (15)
- 19.15 **R. Aßmann:** Challenges and Activities at the GSI Accelerator Facility (30)
- 19.45 **H. Podlech:** Advanced Methods in Digital Astrophotography (60)

Monday, 26.2. (Chair: H. Podlech)

- 17.00 **U. Ratzinger:** Cold copper structures and the anomalous skin effect (45)
- 18.00** **Dinner**
- 19.00 **P. Braun:** The Anomalous Skin Effect and Cold Copper Resonators (15)
- 19.15 **J. Storch:** Simulation of the Operational Stability of Cavities, including Fluid Dynamics & Concepts for 3D-Printed Cavities (20)
- 19.35 **S. Wagner:** Thermal Investigations at MYRRHA and Automated Conditioning (30)
- 20.05 **P. Müller:** Preparation Protocol for Superconducting CH Cavities (20)
- 20.25 **H. Höltermann:** Commissioning of the KoBRA Buncher for RAON (20)
- 20.45 **J. Sonpar:** Rapid Prototyping of a Resonator using FDM-3D-Print und Galvanic Copper Plating (20)

Tuesday, 27.2. (Chairs H. Podlech/M. Iberler)

- 17.00 **P. Zakalek:** The Jülich High Brilliance Neutron Source Project - Current status and developments (30)
- 17.30 **D. Shabani:** Investigation of the ^{99}Mo production via neutron capture $^{98}\text{Mo}(n,\gamma)^{99}\text{Mo}$ with a high-current accelerator-based neutron source (20)
- 18.00** **Dinner**
- 19.00 **L. Bauer:** Comparison of Low-Light Cameras for Beam Diagnostics (15)
- 19.20 **M. Dehmer:** Design and Investigation of a Plasma Lens for Focusing a Proton Beam at LIGHT (20)
- 19.40 **G. Schmidt:** Underwater Electric Wire Explosion Experiment (15)
- 19.55 **T. Knautz:** Simulation of a Medium Voltage Divider for PowerizeD (30)
- 20.25 **M. Iberler:** Dezentralisierung der Energieversorgung und ihre Probleme (30)

Wednesday, 28.2. (Chair: G. Franchetti)

- 17.00 **I. Sole:** Bunch-by-Bunch Tune Shift Studies for LHC-Type Beams in the CERN SPS (25)
- 17.25 **D. Veres:** Possibility of Combining Stable Islands and Bent Crystals for Slow Extraction (25)
- 18.00** **Dinner**
- 19.00 **A. Lauterbach:** Multi Turn Injection (20)
- 19.20 **A. Sherjan:** Beam Dynamics Simulations and Tests on Scraped Beams in VLE Beamline (30)
- 19.50 **V. Britten:** Influences of Beam Parameters on the Interaction between Proton and Electron Beams (20)
- 20.10 **J. Dietrich:** Status of the Turbo-Generator for a Relativistic Electron Cooler (20)
- 20.30 **G. Franchetti:** Dynamics of Kicked Beams (30)

Thursday, 29.2. (Chair: R. Hollinger)

17.00 **P. Kowina:** Introduction to Spectrum Analysis - Aufbau eines Spektrum-Analysators (45)

18.00 Dinner

19.00 **R. Hollinger:** Ion Extraction (30)

19.30 **F. Maimone:** Performance of the ECR Ion Source at the High Charge State Injector (HLI) of GSI (20)

19.50 **M. Händler:** Investigation of an ECR-Ion Source using the Simulation Program IBSimu (20)

20.10 **M. Galonska:** Mixed Carbon and Helium Ion Beams for Simultaneous Heavy Ion Radiotherapy and Radiography: An Ion Source P Perspective (30)

Friday, 1.3. (Chair: F. Maimone)

17.00 **M. Maier:** Coupling of Heavy Ion Beams - boon or bane (30)

17.30 **M. Vossberg:** Operating and Reliability (20)

18.00 Dinner

19.00 **S. Udrea:** 2D BIF Transverse Beam Profile Measurements at LHC (20)

19.20 **J. Yang:** Investigations of Transit Times for Tune Scan of Slow Extraction at GSI SIS18 (20)

19.40 **H. Podlech, R. Hollinger:** Closing Remarks