

Session Program

9-13 Oct 2023



HB2023

WGC - Accelerator Systems

CERN, 500/1-001 - Main Auditorium

Tuesday 10 October

14:20

WGC - Accelerator Systems

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Pranab Saha, Shinji Machida, Haixin Huang

14:20-14:40

"Ultra-low Emittance Bunches from Laser Cooled Ion Traps for Intense Focal Points"

Speaker

Stephen Brooks

14:40-14:50

Discussion

14:50-15:10

"Shaping high brightness and fixed target beams with the CERN PSB charge exchange injection"

Speaker

Chiara Bracco

15:10-15:20

Discussion

15:20-15:40

"Laser stripping of H- beam"

Speakers

Timofey Gorlov, Timofey Gorlov

15:40-15:50

Discussion

15:50-16:05

"Muon production target at J-PARC"

Speaker

Shiro Matoba

16:05-16:15

Discussion

16:15-16:30

"Challenging of muon acceleration for muon colliders"

Speakers

Katsuya Yonehara, Katsuya Yonehara

16:30-16:45

Discussion

16:45

17:05

WGC - Accelerator Systems: Joined by WG-A and WG-E

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Haixin Huang, Pranab Saha, Shinji Machida

17:05-17:25

"A kicker impedance reduction scheme with diode stack and resistor at the RCS in J-PARC"

Speaker

Yoshihiro Shobuda

17:25-17:35 **Discussion**

17:35-17:55

"Development of an Impedance Model for the ISIS Synchrotron and Predictions for the Head-Tail Instability"

Speakers

David Posthuma de Boer, David William Posthuma de Boer

17:55-18:05 **Discussion**

18:05-18:20

"Beam coupling impedance of the main extraction kickers in the CERN PS"

Speakers

Michela Neroni, Michela Neroni

18:20-18:30 **Discussion**

18:30-18:45

"Mitigating collimation impedance and improving halo cleaning with new optics and settings strategy of the HL-LHC betatron collimation system"

Speakers

Bjorn Hans Filip Lindstrom, Bjorn Lindstrom

18:45-19:00 **Discussion**

19:00

Wednesday 11 October

14:20

WGC - Accelerator Systems

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Pranab Saha, Haixin Huang, Shinji Machida

14:20-14:40 **"Self-Consistent Injection Painting for Space Charge Mitigation"**

Speakers

Nicholas Evans, Nicholas John Evans

14:40-14:50 **Discussion**

14:50-15:10 **"Mitigating of Space Charge Effects in RHIC and Its Injectors"**

Speaker

Vincent Schoefer

15:10-15:20 **Discussion**

15:20-15:35 **"Beyond 1 MW Scenario in J-PARC Rapid Cycling Synchrotron"**

Speakers

Kazami Yamamoto, Kazami Yamamoto

15:35-15:45 **Discussion**

15:45-16:00 **"High energy cooling"**

Speaker

Valeri Lebedev

16:00-16:10 **Discussion**

16:10-16:25

"Simulations and Measurements of Betatron and Off-Momentum Cleaning Performance in the Energy Ramp at the LHC"

Speakers

Natalia Triantafyllou, Natalia Triantafyllou

16:25-16:35 **Discussion**

16:35

16:55

WGC - Accelerator Systems

Session | **Location:** CERN, 503/1-001 - Council Chamber | **Conveners:**
Pranab Saha, Shinji Machida, Haixin Huang

16:55-17:15

"RF systems of J-PARC proton synchrotrons for high-intensity longitudinal beam optimization and handling"

Speakers

Fumihiko Tamura, Fumihiko Tamura

17:15-17:25 **Discussion**

17:25-17:45 **"Development of Daul-harmonic RF System for CSNS-II"**

Speaker
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17:45-17:55 **Discussion**

17:55-18:10 **"Magnetic Alloy loaded cavities in J-PARC and CERN"**

Speakers
Chihiro Ohmori, Chihiro Ohmori

18:10-18:20 **Discussion**

18:20-18:35

"Multiharmonic Buncher (MHB) for the Isolde Superconducting Recoil Separator Project"

Speaker
Juan Luis Muñoz

18:35-19:00 **Discussion**

19:00