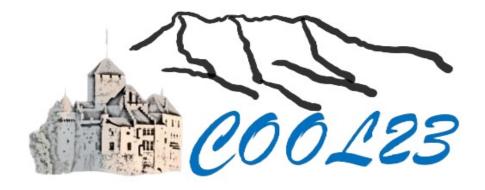
COOL 2023 conference



Report of Contributions

Welcome

Contribution ID: 1 Type: not specified

Welcome

Monday 9 October 2023 09:30 (15 minutes)

Presenter: TRANQUILLE, Gerard Alain (CERN)

Session Classification: Opening session

Contribution ID: 2 Type: not specified

Accelerator Physics Requirements for Electron Cooler at the EIC Injection Energy

Monday 9 October 2023 11:00 (30 minutes)

Presenter: FEDOTOV, Alexei

Session Classification: Existing and future facilities

Contribution ID: 3 Type: not specified

Cooling of Rare Isotope Beams in the ESR Storage Ring

Monday 9 October 2023 11:30 (30 minutes)

Presenter: STECK, Markus

Session Classification: Existing and future facilities

Contribution ID: 4 Type: **not specified**

Perspective of a Dual Energy Electron Storage Ring Cooler for a Hadron Beam Cooling

Monday 9 October 2023 14:00 (30 minutes)

Presenter: LIN, Fanglei (ORNL)

Session Classification: Electron cooling

Contribution ID: 5 Type: **not specified**

Low-Energy Electron Cooling at the Cryogenic Storage Ring

Monday 9 October 2023 14:30 (30 minutes)

Presenter: NOVOTNY, Oldrich (Max Planck Institute for Nuclear Physics)

Session Classification: Electron cooling

Contribution ID: 6 Type: **not specified**

Specifications and Status of the New Electron Cooler for the CERN Antiproton Decelerator (AD)

Monday 9 October 2023 15:00 (30 minutes)

Presenter: ROSSI, Adriana (CERN)

Session Classification: Electron cooling

Contribution ID: 7 Type: **not specified**

Observation of the Ion Imprit in CeC Electron Beam

Tuesday 10 October 2023 09:00 (30 minutes)

Presenter: LITVINENKO, Vladimir

Session Classification: Cooled beam dynamics and theory

Contribution ID: 8 Type: not specified

Studies of Ion Beam Heating in LEReC

Tuesday 10 October 2023 09:30 (30 minutes)

Presenter: SELETSKIY, Sergey

Session Classification: Cooled beam dynamics and theory

Contribution ID: 9 Type: **not specified**

Dynamic Aperture and Frequency Analysis in Elena with Electron Cooler Magnetic Field Included

Tuesday 10 October 2023 10:00 (30 minutes)

Presenter: BOJTAR, Lajos (CERN)

Session Classification: Cooled beam dynamics and theory

Contribution ID: 10 Type: not specified

Experimental Demonstration of High-Gain Plasma Cascade Amplifier

Tuesday 10 October 2023 11:30 (30 minutes)

Presenter: LITVINENKO, Vladimir

Session Classification: Cooling hardware and diagnostics

Contribution ID: 11 Type: not specified

Status of Beam Instrumentation at the Electron Beam Test Stand at CERN

Tuesday 10 October 2023 11:00 (30 minutes)

Presenter: Dr SAMEED, - (CERN)

Session Classification: Cooling hardware and diagnostics

Contribution ID: 12 Type: not specified

Stochastic Cooling of Electrons and Positrons With EUV Light

Tuesday 10 October 2023 14:00 (30 minutes)

Presenter: ZHOLENTS, Alexander (Argonne National Laboratory)

Session Classification: Stochastic cooling

Contribution ID: 13 Type: not specified

Development of Stochastic Cooling Components for HIAF Accelerator

Tuesday 10 October 2023 14:30 (30 minutes)

Presenter: ZHU, Guangyu (institute of modern physics chinese academy of sciences)

Session Classification: Stochastic cooling

Contribution ID: 14 Type: not specified

A Study of the Wiggler Enhanced Plasma Amplifier for Coherent Electron Cooling

Tuesday 10 October 2023 15:00 (30 minutes)

Presenter: ZHOLENTS, Alexander (Argonne National Laboratory)

Session Classification: Stochastic cooling

Contribution ID: 15 Type: not specified

Laser cooling of bunched O5+ ion beams at the CSRe: investigation of coherent effect and extraction of momentum distribution from Schottky spectrum

Tuesday 10 October 2023 16:00 (30 minutes)

Presenter: WANG, Hanbing

Session Classification: Laser cooling

Contribution ID: 16 Type: not specified

Laser Cooling taken to the Extreme at the FAIR SIS 100

Tuesday 10 October 2023 16:30 (30 minutes)

Presenter: WINTERS, Danyal

Session Classification: Laser cooling

Contribution ID: 17 Type: not specified

Laser Cooling of Stored Bunched Relativistic Carbon lons at the ESR, using a Novel Tunable High Repetition Rate Pulsed Laser System

Tuesday 10 October 2023 17:00 (30 minutes)

Presenter: KLAMMES, Sebastian (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

Session Classification: Laser cooling

Contribution ID: 18 Type: not specified

Parameters Optimization for EIC Ring Cooler

Wednesday 11 October 2023 09:00 (30 minutes)

Presenter: SELETSKIY, Sergey

Session Classification: Existing and future facilities

Contribution ID: 19 Type: not specified

Advances and Challenges in Coherent Electron Cooling Experiment at RHIC

Wednesday 11 October 2023 09:30 (30 minutes)

Presenter: LITVINENKO, Vladimir

Session Classification: Existing and future facilities

Contribution ID: 20 Type: not specified

Status and Prospects for the Antimatter Factory at CERN

Wednesday 11 October 2023 10:00 (30 minutes)

Presenter: Dr JOERGENSEN, Lars Varming (CERN)

Session Classification: Existing and future facilities

Contribution ID: 21 Type: not specified

Self Bunching, RF Bunching and Cooling of Ions in an Electrostatic Ion Beam Trap

Wednesday 11 October 2023 11:00 (30 minutes)

Presenter: SHARMA, Deepak (Weizmann Institute of Science)

Session Classification: Storage and cooling in traps

Contribution ID: 22 Type: not specified

Heavy, Highly-charged Ions at GSI/FAIR Decelerated and Cooled

Wednesday 11 October 2023 11:30 (30 minutes)

Presenter: HERFURTH, Frank

Session Classification: Storage and cooling in traps

Contribution ID: 23 Type: not specified

Theoretical and Simulation Study of Disperse Electron Cooling

Thursday 12 October 2023 09:00 (30 minutes)

Presenter: ZHAO, HE (Institute of Modern Physics)

Session Classification: Electron cooling

Contribution ID: 24 Type: not specified

Sustaining Competences for Electron Cooling at HESR

Thursday 12 October 2023 09:30 (30 minutes)

Presenter: AULENBACHER, Kurt (Institut für Kernphysik, Universität Mainz)

Session Classification: Electron cooling

Contribution ID: 25 Type: not specified

Towards More Realistic Simulations of the Coherent Electron Cooling Experiment

Thursday 12 October 2023 11:00 (30 minutes)

Presenter: WANG, Gang

Session Classification: Cooled beam dynamics and theory

Contribution ID: 26 Type: not specified

Design to Achieve Uniform Electron Beam in Coherent Electron Cooling

Thursday 12 October 2023 11:30 (30 minutes)

Presenter: JING, Yichao (BNL)

Session Classification: Cooled beam dynamics and theory

Contribution ID: 35 Type: not specified

Electron Cooling of Low-Energy Ion Beams in CRYRING@ESR

Friday 13 October 2023 09:00 (30 minutes)

Presenter: KRANTZ, Claude (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Electron cooling

Contribution ID: 36 Type: not specified

Electron Cooling in NICA Accelerator Complex

Friday 13 October 2023 09:30 (30 minutes)

Presenter: SYRESIN, Evgeny (Joint Institute for Nuclear Researches)

Session Classification: Electron cooling

Contribution ID: 37 Type: not specified

Experiments on Electron Cooling and Intense Space-Charge at IOTA

Friday 13 October 2023 10:00 (30 minutes)

Presenter: BANERJEE, Nilanjan (Fermi National Accelerator Laboratory)

Session Classification: Electron cooling

Contribution ID: 38 Type: not specified

Characterisation of E-cooling at 100 keV in ELENA

Thursday 12 October 2023 10:00 (30 minutes)

Presenter: GAMBA, Davide (CERN)

Session Classification: Electron cooling

Contribution ID: 39 Type: not specified

Fundamental Physics with Anithydrogen

Friday 13 October 2023 11:00 (50 minutes)

Presenter: Prof. HANGST, Jeffrey Scott (Aarhus University (DK))

Session Classification: Closing session

Closing remarks

Contribution ID: 40 Type: not specified

Closing remarks

Friday 13 October 2023 11:50 (10 minutes)

Presenter: TRANQUILLE, Gerard Alain (CERN)

Session Classification: Closing session