International Workshop
COOL’21

November, 1 – 5, 2021
Budker Institute of Nuclear Physics SB RAS,
Novosibirsk, Russia

PROGRAMME

Time indicated in the Programme is Novosibirsk time zone (GMT +7)
See the current time at https://www.timeanddate.com/worldclock/russia/novosibirsk

Workshop starting time (summer time):
07:00 Chicago, USA
08:00 New York, USA
14:00 Europe
15:00 Moscow, Russia
19:00 Novosibirsk, Russia
20:00 Lanzhou, China
21:00 Korea, Japan
November, 1 (Monday)

Session 01: Chairman – Igor Meshkov
ZOOM https://us02web.zoom.us/j/84946599862
18:50-19:00 Welcome speech from BINP Director, Pavel V. Logachev.
19:00-19:30 Paper S101 - Evgeny Syresin (JINR, Dubna, Moscow Region) NICA synchrotrons and their cooling systems
19:30-20:00 Paper S102 - Maxim Bryzgunov (BINP, Novosibirsk) Elements of high voltage electron cooling system for NICA collider
20:00-20:30 Paper S103 - Lijun Mao (IMP/CAS, Lanzhou) Development of Electron Cooler Components for HIAF Accelerator

20:30-21:00 «Coffee break», Open Discussion

Session 02: Chairman – Vasily Parkhomchuk
ZOOM https://us02web.zoom.us/j/84946599862
21:00-21:30 Paper S201 - Nilanjan Banerjee (Enrico Fermi Institute, Chicago, Illinois) Electron cooling with space-charge dominated proton beams at IOTA
21:30-22:00 Paper S202 - Sergei Nagaitsev (Fermilab, Batavia, Illinois) Cooling and Diffusion Rates in Coherent Electron Cooling Concepts
22:00-22:30 Paper S203 - Gennady Stupakov (SLAC, Menlo Park, California). Microbunching coherent electron cooling for the EIC project

November, 2 (Tuesday)

Session 03: Chairman – Vladimir Reva
ZOOM https://us02web.zoom.us/j/84946599862
19:00-19:30 Paper S301 - Christina Dimopoulou (GSI, Darmstadt) Stochastic Cooling System for the Collector Ring at FAIR
19:30-20:00 Paper S302 - Wolfgang Höfle (CERN, Geneva) Recommissioning of the CERN AD Stochastic Cooling System in 2021 after Long Shutdown 2
20:00-20:30 Paper S303 - Andreas Wolf (MPI-K, Heidelberg) Electron Cooling of Molecular Rotations in the Low-Energy Electrostatic Ion Storage Ring CSR

20:30-20:50 «Coffee break», Open Discussion

Session 04: Chairman – Alexei Fedotov
ZOOM https://us02web.zoom.us/j/84946599862
21:20-21:50 Paper S404 - Sergey Aleksandr Melnikov (JINR, Dubna, Moscow Region) Electron cooler of the NICA booster and its application
November, 3 (Wednesday)

Session 05: Chairman – Lijun Mao  
ZOOM https://us02web.zoom.us/j/84946599862
19:00-19:30 Paper S501 - Kurt Aulenbacher (IKP, Mainz) Future developments for the HESR Cooler prototype at Helmholtzinstitut Mainz.
19:30-20:00 Paper S502 - Thomas Beiser (HIM, Mainz) Observation of BIF at the electron-cooler test-bench at HIM.
20:00-20:30 Paper S503 - Davide Gamba (CERN, Geneva) AD/ELENA electron cooling experience during and after CERNs Long Shutdown (LS2)

20:30-20:50 «Coffee break», Open Discussion

Session 06: Chairman – Sergei Nagaitsev  
ZOOM https://us02web.zoom.us/j/84946599862

November, 4 (Thursday)

Session 07: Chairman – Christina Dimopoulou  
ZOOM https://us02web.zoom.us/j/84946599862
19:00-19:30 Paper S701 - Dimitrije Maletic (Belgrade Institute of Physics, Belgrade) on behalf of the MICE Collaboration, Muon Ionization Cooling Experiment (MICE): Results & Prospects
19:30-20:00 Paper S702 - Katsuya Yonehara (Fermilab, Batavia, Illinois) Plasma Lens in Parametric Resonance Ionization Cooling
20:00-20:30 Paper S703 - Diktys Stratakis (Fermilab, Batavia, Illinois) Ionization Cooling Beamline for a Muon Collider

20:30-20:50 «Coffee break», Open Discussion

Session 08: Chairman – Kurt Aulenbacher  
ZOOM https://us02web.zoom.us/j/84946599862

22:20-22:40 International Advisory Committee Meeting, Special ZOOM session
November, 5 (Friday)

Session 09: Chairman – Andreas Wolf
Poster Session 1.
ZOOM https://us02web.zoom.us/j/84946599862

1. 19:00-19:10 Paper P1001 - Fu Ma (IMP/CAS, Lanzhou) Simulation of High Energy Proton Beam Cooling in EicC
3. 19:20-19:30 Paper P1003 - Claude Krantz (GSI, Darmstadt) Reconfiguration of the CRYRING@ESR Electron Cooler
6. 19:50-20:00 Paper P1006 - Jie Li (IMP/CAS, Lanzhou). Design of the SRing Electron Target
7. 20:00-20:10 Paper P1007 - Dmitry Nikolaevich Skorobogatov (BINP SB RAS, Novosibirsk) High Voltage Power Supply System for Electron Cooler for NICA

Session 10: Chairman – Maxim Bryzgunov
Poster Session 2.
ZOOM https://zoom.us/j/96864779965

1. 19:00-19:10 Paper P2001 - John Acosta (Universidad Distrital Francisco Jose de Caldas, Bogota). Short Solenoid 21, 28, 35, and 42 T Cooling Channel for a Muon Collider
6. 19:50-20:00 Paper P2006 - Vasily Parkhomchuk - Russian Academy of Sciences The Budker Institute of Nuclear Physics, Cascade Transformer for High Voltage Coolers
7. 20:00-20:10 Paper P2007 - Dongyang Chen (IMP/CAS, Lanzhou) Anomalous Longitudinal Schottky Signals of Coasting Ion Beams with Interaction of a CW laser at Storage Ring CSRe
10. 20:30-20:40 Paper P2010 - Vladimir Reva (BINP SB RAS, Novosibirsk) Features of the pickup diagnostic at low energy in the cooler of NICA Booster.

20:50-21:10 «Coffee break»

Closing session
ZOOM https://us02web.zoom.us/j/84946599862

21:10-22:00 D. Möhl Medal Awards and Winner Lection, Chairman – Gerard Tranquille
22:00 Conclusion remarks, Conference closing, Chairman – V.V.Parkhomchuk