



# PAW'24 - Physics at AMBER international Workshop 2024

## Monday 18 March 2024

### Session: Welcome session (09:00 - 09:20)

time	[id] title	presenter
09:00	[1] Welcome - CERN management	WELLS, Pippa
09:10	[2] Welcome - AMBER spokespersons	FRIEDRICH, Jan Dr DENISOV, Oleg

### Session: APX physics (09:20 - 10:35)

time	[id] title	presenter
09:20	[20] Latest AMS Results on Cosmic Light Antimatter Particles	KOUNINE, Andrei
09:45	[22] Cross-Sections for Cosmic Rays	Prof. DONATO, Fiorenza
10:10	[21] Phenomenology of Antiproton Production in the Galaxy	DI MAURO, Mattia

### Session: APX physics (11:05 - 13:05)

time	[id] title	presenter
11:05	[23] Current Results from the NA64 Experiment	CELENTANO, Andrea
11:30	[24] Measurements of Antiproton Production at LHCb	GRAZIANI, Giacomo
11:55	[25] Formation of (Anti)Nuclei in High-Energy Collisions	BELLINI, Francesca
12:20	[26] Antiproton-Production Measurements at AMBER	GIORDANO, Davide
12:35	[27] Discussion and Future Prospects	Mr POSCHL, Thomas

### Session: PRM physics (14:30 - 16:00)

time	[id] title	presenter
14:30	[12] The Proton Radius Measurement at AMBER	FRIEDRICH, Jan
14:45	[13] PRad at Jefferson Lab	GAO, Haiyan
15:15	[14] MESA and ISR - Proton Radius at the Mainz Microtron	MIHOVILOVIC, Miha
15:40	[15] Lattice QCD for the Proton Form Factors and Radii	Mr SALG, Miguel

### Session: PRM physics (16:30 - 18:20)

time	[id] title	presenter
16:30	[16] MUSE - Muon and Electron Scattering Off the Proton at PSI	NICOL, Matthew
17:00	[17] Radiative Corrections for Proton Radius Measurements in Scattering Experiments	AFANASEV, Andrei

17:20	[18] McMule - Radiative Corrections for Scattering Experiments	ROCCO, Marco
17:50	[19] ULQ2	SUDA, Toshimi

## Tuesday 19 March 2024

### Session: Drell-Yan physics (09:00 - 10:30)

time	[id] title	presenter
09:00	[3] Emergent Hadron Mass and Pion/Kaon Partonic Structure	Prof. ROBERTS, Craig
09:30	[4] Meson Structure in Lattice QCD	Prof. LIN, Huey-Wen
10:00	[5] Parametrizing Pion Structure Functions within a Light-Front Framework	Mr ROSSI, Lorenzo

### Session: Drell-Yan physics (11:00 - 13:10)

time	[id] title	presenter
11:00	[8] Pion and Kaon PDFs from Drell-Yan and J/Psi Production	CHANG, Wen-Chen
11:30	[7] Experimental overview on future experiments for pion/kaon structure (EIC & JLab)	Prof. HORN, Tanja
12:00	[9] Recent Results on Pion-induced Drell-Yan	QUINTANS, Catarina
12:30	[10] Semi-exclusive Drell-Yan	AFANASEV, Andrei
12:50	[11] Exclusive heavy quarkonium production in charge-exchange reactions	Dr NEFEDOV, Maxim

### Session: Phase 2 (14:30 - 16:00)

time	[id] title	presenter
14:30	[30] Status of the AMBER Phase-2 Proposal Preparation	Dr SEITZ, Bjorn
14:45	[31] Theory of strange hadrons and baryons	Dr MAI, Maxim
15:10	[32] Strange hadrons spectroscopy at LHCb	MARTINELLI, Maurizio
15:35	[33] Mesons spectroscopy at COMPASS	HAAS, Philipp

### Session: Phase 2 (16:30 - 18:25)

time	[id] title	presenter
16:30	[35] Hadron Radii Measurements at AMBER	Prof. PAUL, Stephan
16:55	[36] Two-Photon Physics	VANDERHAEGHEN, Marc
17:20	[34] Primakoff reactions and Prompt Photons Production with AMBER	Dr GUSKOV, Alexey
17:45	[37] Meson Structure Study via Drell-Yan and J/Psi production at AMBER Phase-2	Dr LIU, Kun
18:05	[38] Color transparency in hard 2 to 3 hadron induced processes and probing of nondiagonal GPDs	Prof. STRIKMAN, Mark

# Wednesday 20 March 2024

## Session: Accelerators, Beams, Experimental Areas - 31/3-004 - IT Amphitheatre (09:00 - 10:25)

time	[id] title	presenter
09:00	[28] The North-Area Consolidation project and its impact on physics in CERN's North Area	KADI, Yacine
09:30	[29] M2 beam line optimisation for hadrons and beyond	BANERJEE, Dipanwita
10:00	[39] Technical aspects in the quest for optimal vacuum in the M2 beam line	LINO DIOGO DOS SANTOS, Miguel

## Session: Accelerators, Beams, Experimental Areas - 31/3-004 - IT Amphitheatre (11:00 - 12:55)

time	[id] title	presenter
11:00	[40] CEDARS: performance at high intensity, f/e optimisation	STOLARSKI, Marcin
11:30	[42] Radiation protection assessment of the AMBER Drell-Yan program	AHDIDA, Claudia
12:00	[41] High rate capable tracking beam line detectors	Dr SEITZ, Bjorn
12:25	[43] Moderated discussion on M2 beam line improvements	SCHUH-ERHARD, Silvia