



# FAIR next generation scientists - 8th Edition Workshop

## Dienstag, 24. September 2024

### Session: Tuesday morning 1 (09:00 - 10:35)

time	[id] title	presenter
09:00	[106] Laser cooling of intense relativistic beams of heavy highly charged ions	Dr. WINTERS, Danyal
09:35	[74] Theoretical investigation of fluorescence and photoelectrons angular distribution in a XUV-pump XUV-probe scheme in C III ion	Dr. IORGA, Cristian
09:55	[105] High-Resolution Dielectronic Recombination of Berylliumlike Gold Ions at the Electron Cooler of the CRYRING@ESR Storage Ring	LOOSHORN, Mirko
10:15	[110] Status of the FAIR project	WINTERS, Natalya

### Session: Tuesday morning 2 (11:10 - 12:25)

time	[id] title	presenter
11:10	[107] Topical review on neutron star mergers	COLLINS, Christine
11:45	[69] Neutrino Transport in Binary Neutron Star Mergers	NIKOLAIDIS, Aristeidis
12:05	[71] Systematic study of binary neutron star mergers with neutrinos	VIJAYAN, Vimal

### Session: Tuesday afternoon 1 (16:30 - 17:30)

time	[id] title	presenter
16:30	[90] Self-consistent 3D radiative transfer for kilonovae	Dr. SHINGLES, Luke
16:50	[102] $\phi$ meson production from $K^+K^-$ decay channel in $p(4.5 \text{ GeV})+p$ with HADES at GSI	DEB, Suman
17:10	[66] Real-time calibrations for future detectors at FAIR	KLADOV, Valentin

### Session: Tuesday afternoon 2 (18:00 - 18:20)

time	[id] title	presenter
18:00	[94] Recent highlights from the STAR Experiment	MANIKANDHAN, Rutik

# Mittwoch, 25. September 2024

## Session: Wednesday morning 1 (09:00 - 10:35)

time	[id] title	presenter
09:00	[101] The QCD phase diagram: a theoretical overview	Dr. JAHAN, Johannes
09:35	[84] Partial Wave Analysis for Pion-Induced Resonance Studies in the HADES Experiment	FODA, Ahmed Marwan Abdelrahman
09:55	[65] Towards reconstructing dilepton flow in Au+Au collisions at low energies with HADES <sup>^*</sup>	KIM, Sukyung
10:15	[81] Hyperon-production in proton-proton collisions at 4.5 GeV with HADES	PATTNAIK, Snehankit

## Session: Wednesday morning 2 (11:05 - 12:25)

time	[id] title	presenter
11:05	[92] Investigating Proton-Proton Elastic Scattering with the Upgraded HADES Spectrometer	PEREZ ANDRADE, Gabriela
11:25	[85] Production and electromagnetic structure studies of the $\Delta$ resonance in proton-proton collisions at 4.5 GeV with HADES	SAHU, Saket Kumar
11:45	[70] Dielectron analysis in p+p collisions at 1.58 GeV beam energy with HADES	Frau SCHARMANN, Karina
12:05	[64] Sprout - a Software Tool for Your Analysis	BOHMAN, Malin

## Session: Wednesday afternoon 1 (16:30 - 17:30)

time	[id] title	presenter
16:30	[83] A Look Inside mRICH: Exploring Timing and Performance of a RICH Prototype	Herr DESHMUKH, Abhishek Anil
16:50	[67] Performance of hit, track, and vertex reconstruction of the Silicon Tracking System of the CBM experiment	Herr RAMIREZ, Dario
17:10	[88] Di-Muon cocktail reconstruction using Machine learning technique in CBM experiment at FAIR SIS100 energies	SHARMA, Pawan Kumar

## Session: Wednesday afternoon 2 (18:00 - 18:20)

time	[id] title	presenter
18:00	[75] Machine learning application for electron identification in CBM	SUBRAMANI, Pavish

# Donnerstag, 26. September 2024

## Session: Thursday morning 1 (09:00 - 10:35)

time	[id] title	presenter
09:00	[104] CP violation tests in hyperon decays at BESIII	BATOZSKAYA, Varvara
09:35	[77] Strangeness fluctuations in the HADES experiment	Frau SREEJITH, Athira
09:55	[68] Inclusive analysis of $\Sigma(1385)^{\pm}$ hyperons production and decay in 4,5 GeV p+p reactions in HADES	SUMARA, Konrad
10:15	[82] $\Lambda(1405)$ reconstruction in $\Sigma^0 \pi^0$ decay channel with HADES detector	WŁADYSZEWSKA, Anna

## Session: Thursday morning 2 (11:05 - 12:25)

time	[id] title	presenter
11:05	[86] Determining the reaction volume with CBM	ARTUR, Beatriz
11:25	[63] Module and ladder characterization and burn-in tests of the Silicon Tracking System for the CBM experiment	COLLAZO SÁNCHEZ, Lady Maryann
11:45	[72] Forward Spectator Detector for CBM	DVORAK, Radim
12:05	[73] Feasibility Studies for Di-Electron Spectroscopy with CBM at FAIR	FEIER-RIESEN, Cornelius

## Session: Thursday afternoon 1 (16:30 - 17:30)

time	[id] title	presenter
16:30	[91] Hypernuclei studies in heavy-ion collisions with the CBM experiment	GLAESSEL, Susanne
16:50	[89] Performance Evaluation of Plastic Scintillator-Based Calorimeter Modules for Neutron Detection in the CBM Experiment	OKROPIRIDZE, Dachi
17:10	[61] A SiPM-based readout system for the CBM's RICH	PENA RODRIGUEZ, Jesus

## Session: Thursday afternoon 2 (18:00 - 18:20)

time	[id] title	presenter
18:00	[98] Development of a gas system for the Transition Radiation Detector of the CBM experiment	PODGORNOV, Nikolai

# Freitag, 27. September 2024

## Session: Friday morning 1 (09:00 - 10:35)

time	[id] title	presenter
09:00	[108] Nuclear structure related to NUSTAR and FAIR	MENENDEZ, Javier
09:35	[79] Microscopic description of $\beta$ -decay rates of r process nuclei	ALVEAR TERRERO, Diana
09:55	[76] Study of multinucleon knockout reactions of exotic nuclei in the region of nitrogen	FEIJOO, Martina
10:15	[87] Critical dynamics of non-equilibrium phase transitions	HARHOFF, Mattis

## Session: Friday morning 2 (11:05 - 12:05)

time	[id] title	presenter
11:05	[62] Gaussian approximation within an extended linear sigma model	KOVÁCS, Győző
11:25	[99] Physical Riemann surfaces of the lambda baryon's form factors ratio	Dr. ROSINI, Francesco
11:45	[96] The rho-pi puzzle and vector glueball mixing	VEREIJKEN, Arthur