



# 10th International Conference on New Frontiers in Physics (ICNFP 2021)

## Thursday, August 26, 2021

### B Heavy Ion Collisions and Critical Phenomena - Room 1 (11:00 AM - 12:00 PM)

time	[id] title	presenter
11:00 AM	[252] In-medium effects in strangeness production in heavy-ion collisions at (sub-)threshold energies	BRATKOVSKAYA, Elena
11:30 AM	[250] How clusters can survive in the expanding fireball in heavy ion collisions	AICHELIN, Joerg

# Friday, August 27, 2021

## B Heavy Ion Collisions and Critical Phenomena - Room 1 (11:00 AM - 1:30 PM)

time	[id] title	presenter
11:00 AM	[38] Particle polarization in heavy-ion collisions at moderately relativistic energies	IVANOV, Yuri
11:30 AM	[102] Hadronic resonances in heavy-ion collisions at NICA energies and their reconstruction in the MPD setup	RIABOV, Viktor
12:30 PM	[103] Probing the properties of dense nuclear matter with photon conversions at NICA	BURMASOV, Nazar
1:00 PM	[216] Charged-particle multiplicity distribution of Heavy flavor decay leptons in proton-proton collisions using Pythia8 at LHC energies	Dr SARKAR - SINHA, Tinku

# Monday, August 30, 2021

## B Heavy Ion Collisions and Critical Phenomena: D Cosmology, Astrophysics, Gravity, Mathematical Physics - Room 1 (8:30 AM - 10:30 AM)

time	[id] title	presenter
8:30 AM	[191] Overview of Heavy Ion Results at LHCb	Prof. PUGATCH, Valery
9:00 AM	[12] Exploring cosmic matter with heavy-ion collisions	SENGER, Peter
9:30 AM	[44] Annual Modulation Results from DAMA/LIBRA	Dr CERULLI, Riccardo
10:00 AM	[27] A model of dark photons as dark matter in a multi-temperature universe	ABOU IBRAHIM, Amin

## B Heavy Ion Collisions and Critical Phenomena - Room 1 (11:00 AM - 1:30 PM)

time	[id] title	presenter
11:00 AM	[70] Collective modes in chiral anisotropic quark-gluon plasma	CARRINGTON, Margaret
11:30 AM	[94] Vorticity Effect in Heavy-ion Collision	Mr LEI, Anke
12:00 PM	[104] Nature of particles azimuthal anisotropy at low and high transverse momenta in ultrarelativistic A+A collisions	EYYUBOVA, Gyulnara
12:30 PM	[137] Overview of recent heavy flavor measurements from the STAR experiment	Mr HUANG, Te-Chuan
1:00 PM	[173] Decoupling the rates of Bottomonium dissociation and recombination reactions in heavy-ion collisions using Bateman equation	ABDULSALAM, Abdulla

## B Heavy Ion Collisions and Critical Phenomena - Room 3 (11:00 AM - 1:30 PM)

time	[id] title	presenter
11:00 AM	[166] Study on production of $K_S^0$ , $\Lambda$ ( $\overline{\Lambda}$ ), $\Xi^{\pm}$ and $\Omega^{\pm}$ in jets and underlying events in pp and p-Pb collisions with ALICE	CUI, Pengyao
11:25 AM	[45] Study of spectator distributions in the HADES experiment	ZHEREBTSOVA, Elisaveta
11:50 AM	[92] Search for the QCD critical point by the NA61/SHINE experiment	ADHIKARY, Haradhan
12:15 PM	[262] Validation of Glauber model in centrality determination for small systems	RAMASUBRAMANIAN, Niveditha
12:40 PM	[217] Production of charged-particles in proton-proton and heavy-ion collisions using RIVET analysis	ISLAM, Md Samsul
1:05 PM	[88] Nonequilibrium cumulants of the chiral order parameter and the net-proton number at lower RHIC energies	HEROLD, Christoph

## B Heavy Ion Collisions and Critical Phenomena - Room 3 (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[223] Scaling of kinematic and global observables, along with energy and entropy density in pp, pPb and PbPb collisions	DOMINGUEZ ROSAS, Edgar
5:25 PM	[31] Multi-partonic medium induced cascades in expanding media	Mr ADHYA, Souvik Priyam

5:50 PM	[81] Correlations generated by global baryon number conservation	BAREJ, Michał
6:15 PM	[106] Analytical solution of the generalized Boltzmann transport equation in the relaxation time approximation	BHATTACHARYYA, Trambak
6:40 PM	[85] Thermodynamic Behaviour of Time Dependent Magnetized Quark Gluon Plasma	Dr KUMAR, Yogesh

## Tuesday, August 31, 2021

### **B Heavy Ion Collisions and Critical Phenomena - Room 2 (11:00 AM - 1:30 PM)**

time	[id] title	presenter
11:00 AM	[83] Measurements of open charm hadrons in Au+Au collisions at $\sqrt{s_{\mathrm{NN}}} = 200 \text{ GeV}$ by the STAR experiment	VANĚK, Jan
11:30 AM	[219] Influence of chiral imbalance on color superconductivity phenomenon	ZHOKHOV, Roman
12:00 PM	[293] Tsallis statistics, thermofractals and QCD	Dr MEGIAS, Eugenio
12:30 PM	[37] Upgrade of the BM@N detector for studies of heavy ion interactions	MAKSYMCHUK, Anna
1:00 PM	[240] Electrical and Hall Conductivities of a hot and magnetized pion gas in heavy ion collisions	KALIKOTAY, Pallavi

### **B Heavy Ion Collisions and Critical Phenomena - Room 2 (5:00 PM - 7:00 PM)**

time	[id] title	presenter
5:00 PM	[82] Gamma Gamma pairs production from hot and dense quark gluon plasma	Dr KUMAR, Yogesh
5:30 PM	[133] New results from flow, chirality and vorticity at RHIC-STAR	Dr ZHANG, Chunjian
6:00 PM	[96] STAR results on strangeness and electric charge dependent splitting of the rapidity-odd directed flow	SHEIKH, Ashik Ikbal
6:30 PM	[152] Space-average electromagnetic fields and EM anomaly weighted by energy density in heavy-ion collisions	SIDDIQUE, Irfan

## Wednesday, September 1, 2021

### **B Heavy Ion Collisions and Critical Phenomena - Room 1 (11:00 AM - 1:30 PM)**

time	[id] title	presenter
11:00 AM	[59] Triple nuclear collisions and new perspectives to explore the QCD matter properties under new extreme conditions	BUGAEV, Kyrill VITIUK, Oleksandr
11:30 AM	[87] An overview of recent STAR jet measurements and futurity	SAHOO, NIHAR RANJAN
12:00 PM	[276] Quarkonium production in p+p collisions at RHIC and LHC	Dr KOSARZEWSKI, Leszek
12:30 PM	[313] Study of freeze-out, directed flow and vorticity in heavy-ion collisions at NICA energies	BRAVINA, Larisa
1:00 PM	[108] Differential measurements of jet sub-structure observables and their correlation in p+p collisions at $\sqrt{s}=200$ GeV in STAR	ROBOTKOVÁ, Monika

### **B Heavy Ion Collisions and Critical Phenomena - Room 3 (5:00 PM - 7:00 PM)**

time	[id] title	presenter
5:00 PM	[167] Quantum fluctuation of energy and its pseudo-gauge dependence in subsystems of hot relativistic gas	DAS, Arpan
5:30 PM	[121] Confinement/deconfinement transition in rotating gluodynamics within lattice simulation	Dr ROENKO, Artem
6:30 PM	[315] TBA	

### **B Heavy Ion Collisions and Critical Phenomena - Room 1 (5:30 PM - 6:00 PM)**

time	[id] title	presenter
5:30 PM	[29] Study of the central exclusive production of $\pi^+\pi^-$ , $K^+K^-$ and $p\bar{p}$ pairs in proton-proton collisions at $\sqrt{s} = 510$ GeV with the STAR detector at RHIC	TRUHLÁŘ, Tomáš

# Thursday, September 2, 2021

**B Heavy Ion Collisions and Critical Phenomena - Room 1 (8:30 AM - 9:00 AM)**