# "Critical Point and Onset of Deconfinement" Conference "CPOD 2018"

Programme

Mone	<u>day 24/9</u>	
Morning Session, Ch	air: P. Seyboth	
09:00-09:45 H. Stöc		AGIC - how Matter's extreme phases can be revealed in Gravitational ave observations and in relativistic heavy Ion Collision experiments"
09:45-10:30 G. Odyr		Results from Beam Energy Scan (BES) Program at RHIC and plans for the econd phase of BES"
10:30-11:00 Coffee		
11:00-11:45 K. Greb	ieszkow : "N	lew results on spectra and fluctuations from NA61"
11:45-12:00 J. Brew		Searching for the QCD critical point via the rapidity dependence of unulants"
12:00-12:30 N. Davis		Recent results from proton intermittency analysis in nucleus-nucleus
12:30-12:45 B. Toma	asik : "B	Benchmark values for net proton number fluctuations"
12:45-13:30 A. Rusta	amov : "lo	dentified Particle Fluctuations from ALICE at the CERN LHC"
13:30-16:00 Lunch,	etc.	
Afternoon Session, C	Chair: D. Zhou	
16:00-16:30 Ch. Plu	mberg : "C	CD matter with a crossover and a first-order phase transition"
16:30-17:15 L. Cserr	nai : "F	luid dynamical phenomena in QGP and its recent experimental signatures
17:15-17:30 Coffee		
17:30-18:00 T. Fisch		Explosions of massive blue-supergiant stars triggered by the QCD phase ansition"
19:30 Concern	t	

20:30 Welcome Drinks

#### Tuesday 25/9

#### Morning Session, Chair: A. Tsapalis 09:00-09:45 Sw. Mukherjee : "QCD phase diagram from lattice" : "Lattice-based Equation of State of QCD matter with a critical point" 09:45-10:30 C. Ratti 10:30-11:00 Coffee 11:00-11:30 J. Goswami : "Critical end points in (2+1)-flavor QCD with imaginary chemical potential" : "News on net-charge fluctuations and correlations from lattice QCD" 11:30-12:00 Fr. Karsch : "Off-diagonal cumulants of net-charge, net-proton and net-kaon multiplicity 12:00-12:30 A. Chatterjee distributions in Au+Au collisions at √s<sub>NN</sub>=7.7-200 GeV from STAR" : "Bottomonia physics at RHIC and LHC" 12:30-13:00 G. Wolschin : "Recent measurements of identified hadron spectra and multiplicities in 13:00-13:15 M. Lewicki Ar+Sc and Be+Be collisions at SPS energies" 13:15-13:30 A. Friesen : "Strange matter and kaon to pion ratio in SU(3) PNJL model" 13:30-16:00 Lunch, etc. Afternoon Session, Chair: L. Turko 16:00-16:30 L. Glozman : "Implications of the chiralspin symmetry for QCD at high temperatures and densities" : "Production of Entropy at the Chiral Phase Transition from Dissipation and 16:30-17:00 Ch. Herold Noise" 17:00-17:30 S. Mao : "Chiral symmetry restoration and quark deconfinement beyond mean field in a magnetized PNJL model" 17:30-18:00 Coffee 18:00-18:30 L. Bravina : "Directed flow and freeze-out in relativistic heavy-ion collisions at NICA and FAIR energies" 18:30-18:45 K. Xu : "QCD Critical Point and Finite size effect" 18:45-19:00 N. Wink : "From first principle QCD to dynamical fluctuations" 19:00-19:15 I. Portillo Vazquez : "QCD phase diagram with a critical point from holographic black holes"

### Wednesday 26/9

Morning Session, Chair: M. Gazdzicki				
09:00-09:30 J. Noronha-Hostler	: "Freeze-out temperature from net-Kaon fluctuations at RHIC"			
09:30-10:00 J. Torres-Rincon	: "Nuclear correlations and modifications of the nucleon-nucleon potential due			
	to the QCD critical mode"			
10:00-10:30 M. Nahrgang	: "Dynamics of net-baryon density fluctuations near the QCD critical point"			

10:30-11:00 Coffee	. "Finite size easiling, Intermitteney, and the OCD critical point"			
11:00-11:30 F. Diakonos 11:30-12:00 M. Bluhm	<ul><li>: "Finite-size scaling, Intermittency and the QCD critical point"</li><li>: "Finite size effects on critical fluctuations"</li></ul>			
12:00-12:30 D. Blaschke	: "Chiral symmetry restoration by parity doubling and the structure of neutron stars"			
12:30-13:00 A. Motornenko	: "Equation of state for hot QCD and compact stars from mean field approach"			
13:00-13:30 F. Rennecke	: "Strangeness Neutrality, Baryon-Strangeness Correlations and the Phase Structure of QCD"			
13:30-16:00 Lunch, etc.				
Afternoon Session, Chair: A. Kapoyannis				
16:00-16:30 R. Bellwied	: "Composite particle production in relativistic particle collisions through quantum entanglement"			
16:30-16:45 B. Porfy	: "First NA61/SHINE results on Bose-Einstein correlation function"			
16:45-17:15 P. Pais	: "Gribov horizon, Polyakov loop and finite temperature"			
17:15-17:30 Coffee				
17:30-20:00 IAC meeting				

## Thursday 27/9 tion Chair: H. Hamagaki

Morning Session, Chair: H. Hamagaki				
09:00-09:45	V. Friese	:	"Prospects for the study of baryon-rich matter at new facilities"	
09:45-10:30	T. Galatyuk	:	"Decoding the Phase structure of QCD at high $\mu_B$ with HADES"	
10:30-11:00	Coffee			
11:00-11:45	M. Kapishin	:	"Studies of baryonic matter in the BM@N and MPD experiments at	
			Nuclotron/NICA"	
11:45-12:15	T. Sakaguchi	:	"High density matter physics at J-PARC-HI"	
12:15-12:45	Al. Sorin	:	"Vorticity, hydrodynamic helicity and polarization in baryon-rich matter"	
12:45-13:15	A. Taranenko	:	"Anisotropic flow measurements at NICA energies"	
Free afternoon-Guided tour-Conference dinner				

# Friday 28/9 Morning Session, Chair: J. Stroth

09:00-09:30 II. Selyuzhenkov	: "Anisotropic flow measurement from NA61/SHINE and NA49 experiments at CERN SPS"
09:30-10:00 N. Davis	: "Electromagnetic effects and the longitudinal evolution of the system at CERN SPS energies"
10:00-10:15 J. Cimerman	: "Event averaging and event-shape sorting as seen by femtoscopy"
10:15-10:30 S. Morozov	: "Forward hadron calorimeter (PSD) of NA61/SHINE for heavy ion studies and its upgrade for experiments beyond 2020"
10:30-11:00 Coffee	
11:00-11:30 Y. Yin	: "QCD critical point, fluctuations and hydrodynamics"
11:30-11:45 G. Ridgway	: "Understanding the out-of-equilibrium dynamics near a critical point with Hydro+"
11:45-12:00 JB. Rose	: "Shear viscosity and resonance lifetimes in the hadron gas"
12:00-12:30 V. Vovchenko	: "QCD equation of state at finite baryon density with fugacity expansion"
12:30-12:45 R. Sochorova	: "Evolution of multiplicity fluctuations in heavy ion collisions"
12:45-13:00 D. Kincses	: "PHENIX results on centrality and collision energy dependent Levy analysis of HBT correlation functions"
13:00-13:15 A. Merzlaya	: "Open charm measurements at CERN SPS energies in the NA61/SHINE experiment - status and plans"
13:15-13:30 A. Tefelska	<sup>:</sup> "K*(892) <sup>0</sup> production in p+p interactions at 158 GeV/c from NA61/SHINE"
13:30-16:00 <i>Lunch, etc.</i>	·· ()
Afternoon Session, Chair: Fr. K	arsch
16:00-16:30 P. Zhuang	: "Meson properties in magnetized quark matter"
16:30-17:15 S. Kowalski	: "Experimental Summary Aspects of CPOD"
17:15-17:45 Coffee	
17:45-18:30 L. McLerran	: "Theoretical Summary"
18:30-18:45	: Closing