

# XIV Workshop on Particle Correlations and Femtoscopy

dedicated to 100th anniversary of M.Podgoretsky's birth

**June 3 - 7, 2019, Dubna, Russia**

## Preliminary Programme

**June 3, 2019 Sunday**

**Arrival**

**June 3, 2019 Monday**

08:00 - 12:00 Registration 240'

**Opening**

09:00 - 09:10 KEKELIDZE Vladimir (JINR) 10'

09:10 - 09:20 KISIEL Adam (WUT & JINR) 10'

09:20 - 09:30 LEDNICKY Richard (JINR) 10'

**Session 1**

09:30 - 10:00 LEDNICKY Richard (JINR) 30'

*Correlation femtoscopy: origins and achievements*

10:00 - 10:30 KISIEL Adam (WUT & JINR) 30'

*Status of the MPD experiment*

10:30 - 11:00 CSORGO Tamas (Wigner RCP Budapest & EKE KRC Gyongyos) 30'

*Model Dependent Observation of Odderon from Elastic pp and p $\bar{p}$  Scattering at TeV Energies*

11:00 - 11:30 TOMASIK Boris (Univerzita Mateja Bela) 30'

*Prospects of Event Shape Sorting*

11:30 - 11:50 **Coffe break** 20'

**Session 2**

11:50 - 12:20 SCHWEID Benjamin (Stony Brook University) 30'

*Femtoscopic measurements for shape-engineered events in Au+Au collisions for the Beam Energy Scan at STAR*

12:20 - 12:50 MALININA Ludmila (SINP MSU, Moscow & JINR) 30'

*Identical charged pion and kaon femtoscopic correlations in pp collisions at 13 TeV with event-shape selection*

12:50 - 13:20 SIMATOVIC Goran (Nikhef, Amsterdam) 30'

*Event-shape dependent same charge pion femtoscopy in pp collisions at  $\sqrt{s_{NN}} = 7$  TeV with the ALICE detector*

13:20 - 14:20 **Lunch** 60'

### Session 3

14:20 - 14:50	<b>SINYUKOV Yuriy (BITP, Kiev)</b> <i>Femtoscopic picture of relativistic heavy ion collisions in integrated HydroKinetic Model</i>	30'
14:50 - 15:20	<b>GRACZYKOWSKI ukasz (Warsaw University of Technology)</b> <i>Measurement of the strong interaction between matter and antimatter in heavy-ion collisions with ALICE</i>	30'
15:20 - 15:50	<b>MIKHAYLOV Konstantin (ITEP, Moscow &amp; JINR)</b> <i>K+K- correlations in Pb–Pb collisions at <math>\sqrt{s_{NN}} = 2.76</math> TeV by the ALICE at the LHC.</i>	30'
15:50 - 16:20	<b>PAWOWSKA Diana (Warsaw University of Technology)</b> <i>Neutral kaon femtoscopy in STAR</i>	30'
16:20 - 16:40	<b>Coffe break</b>	20'

### Session 4

16:40 - 17:10	<b>KURGYIS Balint (Etvos Lornd University, Budapest)</b> <i>Three particle Levy HBT from PHENIX</i>	30'
17:10 - 17:40	<b>PUKHAEVA Nelli (JINR)</b> <i>High order BEC</i>	30'
17:40 - 18:10	<b>KHYZHNIAK Eugenia (NRNU MEPhI, Moscow)</b> <i>Azimuthally-differential pion femtoscopy in Cu+Au and Au+Au collisions at <math>\sqrt{s_{NN}} = 200</math> GeV in the STAR experiment</i>	30'
18:10 - 18:40	<b>KINCSES Daniel (Etvos Uni. &amp; Stony Brook Uni.)</b> <i>Measurements of HBT correlations and Levy source parameters in <math>\sqrt{s_{NN}} = 200</math> GeV Au+Au collisions at the STAR experiment</i>	30'
18:40 - 19:10	<b>CSANAD Mate (Etvos University, Budapest)</b> <i>Exact analytic solutions of viscous hydrodynamics</i>	30'

### **Welcome Party**

<b>19:15 - 21:15</b>	<b>International Conference Hall</b>	120'
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### **June 4, 2019 Tuesday**

### Session 5

09:00 - 09:30	<b>FABBIETTI Laura (Technische Universitt Mnchen)</b> <i>Strange Hadrons and Neutron Stars</i>	30'
09:30 - 10:00	<b>MIHAYLOV Dimitar (Technical University of Munich)</b> <i>Beyond the scattering and hypernuclei experiments: a tale of the p- and - correlation studies at ALICE</i>	30'
10:00 - 10:30	<b>HOHLWEGER Bernhard (Technical University Munich)</b> <i>Unprecedented precision studies of the proton Xi interaction via the femtoscopy method.</i>	30'
10:30 - 11:00	<b>MATHIS Andreas (Technische Universitt Mnchen)</b> <i>Constraining the p- interaction for the first time employing femtoscopy in ALICE</i>	30'

11:00 - 11:30	<b>VAZQUEZ DOCE Oton (Technical University of Munich)</b> <i>Precise experimental constraints of the strong interaction between a proton and a <math> S =3</math> baryon using femtoscopy</i>	30'
11:30 - 11:50	<b>Coffe break</b>	20'
<b><u>Session 6</u></b>		
11:50 - 12:20	<b>LEA Ramona (University and INFN Trieste)</b> <i>Probing the meson-baryon strong interaction via femtoscopy in pp and p-Pb collisions with ALICE</i>	30'
12:20 - 12:50	<b>NOVAK Tamas (Eszterhazy Karoly Uni., Jaszarokszallas)</b> <i>Model independent Levy analysis and its applications</i>	30'
12:50 - 13:20	<b>LÖKÖS Sándor (Esztehazy Károly &amp; Eötvös Loránd Uni.)</b> <i>Coulomb-correction for Lévy-type sources</i>	30'
13:20 - 14:20	<b>Lunch</b>	60'
<b><u>Session 7</u></b>		
14:20 - 14:50	<b>KUCHARCZYK Marcin (IFJ PAN, Krakow)</b> <i>Particle correlations at LHCb</i>	30'
14:50 - 15:20	<b>PADULA Sandra (UNESP, Sao Paulo)</b> <i>Results on Bose-Einstein correlations of charged hadrons in pp collisions at 13 TeV</i>	30'
15:20 - 15:50	<b>NIGMATKULOV Grigory (NRNU MEPhI, Moscow)</b> <i>Femtoscopic probes with strange particles in STAR</i>	30'
15:50 - 16:20	<b>KASZA Gábor (Wigner RCP, Eszterházy University)</b> <i>of relativistic hydrodynamics - observation of a non-monotonic behaviour at RHIC</i>	30'
16:20 - 16:50	<b>BATYUK Pavel (Joint Institute for Nuclear Research)</b> <i>Femtосcopy with identified particles for NICA/MPD</i>	30'
16:50 - 16:55	<b>Short film about NICA</b>	05'
16:55 - 17:15	<b>Coffe break</b>	20'
<b><i>EXCURSION to NICA</i></b>		
17:15 - 19:15	<b>Bus1 from International Conference Hall</b>	120'
17:20 - 17:20	<b>Bus2 from International Conference Hall</b>	

## June 4, 2019 Wednesday

07:00 - 20:00	<b>EXCURSION to Moscow</b>	780'
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## June 5, 2019 Thursday

### Session 8

09:00 - 09:30	<b>JANIK Malgorzata (Warsaw University of Technology)</b>	30'
	<i>Review on correlations from ALICE</i>	
09:30 - 10:00	<b>PARFENOV Peter (MEPhI, Moscow)</b>	30'
	<i>Elliptic and triangular collective flow of identified charged hadrons in Au+Au at <math>\sqrt{s_{NN}} = 200</math> GeV</i>	
10:00 - 10:30	<b>GOLOSOV Oleg (MEPhI, Moscow)</b>	30'
	<i>Anisotropic flow measurements from the NA61/SHINE and NA49 beam momentum scan programs at CERN SPS</i>	
10:30 - 11:00	<b>STEFANIAK Maria (Subatech, Nantes)</b>	30'
	<i>Investigation of particle anti-particle elliptic flow difference</i>	
11:00 - 11:30	<b>TARANENKO Arkadiy (NRNU MEPhI, Moscow)</b>	30'
	<i>Anisotropic flow measurements at NICA energies</i>	
11:30 - 11:50	<b>Coffe break</b>	20'

### Session 9

11:50 - 12:20	<b>ALTSYBEEV Igor (St.Petersburg State University)</b>	30'
	<i>Application of Principal Component Analysis to establish a proper basis for flow studies in heavy-ion collisions</i>	
12:20 - 12:50	<b>VECHERNIN Vladimir (St. Petersburg State University)</b>	30'
	<i>Calculation of long-range rapidity correlations in the model with string fusion on a transverse lattice</i>	
12:50 - 13:20	<b>PROKHOROVA Daria (St Petersburg State University)</b>	30'
	<i>Study of forward-backward multiplicity fluctuations and correlations with pseudorapidity</i>	
13:20 - 14:20	<b>Lunch</b>	60'

### Session 10

14:20 - 14:50	<b>LACEY Roy (Stony Brook University)</b>	30'
	<i>Search for the critical point in the phase diagram for QCD matter</i>	
14:50 - 15:20	<b>MUDROKH Alexander (JINR)</b>	30'
	<i>Prospects for the study of event-by-event fluctuations and strangeness production with the MPD detector at NICA</i>	
15:20 - 15:50	<b>PÓRFY Barnabás (Eötvös Loránd University, Budapest)</b>	30'
	<i>Bose-Einstein correlations at NA61/SHINE</i>	
15:50 - 16:20	<b>SERYAKOV Andrey (St.Petersburg State University)</b>	30'
	<i>Correlations and fluctuations from the NA61/SHINE experiment</i>	
16:20 - 16:40	<b>Coffe break</b>	20'

### Session 11

16:40 - 17:10	<b>BOLDIZSAR Balint (Eötvös University, Budapest)</b>	30'
	<i>Analytic model studies of polarized baryon production</i>	
17:10 - 17:40	<b>CIMERMAN Jakub (Czech Technical University, Prague)</b>	30'

17:40 - 18:10	<i>The shape of the correlation function</i> <b>GREIFENHAGEN Robert (HZDR, Dresden)</b>	30'
	<i>Bose-Einstein correlations in central and non-central Au+Au collisions at 1.23 A GeV</i>	
18:10 - 18:40	<b>UZHVA Denis (St.Petersburg State University)</b>	30'
	<i>Convolutional neural network for centrality in fixed target</i>	
18:40 - 19:10	<b>SHMATOV Sergey (Joint Institute for Nuclear Research)</b>	30'
	<i>Multiparticle correlation studies in pPb collisions</i>	
<b>Conference Banquet</b> 19:30 - 23:30	<b>Conference Banquet at Restaurant "Dubna"</b>	240'

## June 7, 2019 Friday

### Session 12

09:00 - 09:30	<b>RYBCZYNSKI Maciej (Jan Kochanowski University, Kielce)</b>	30'
	<i>Multiplicity fluctuations in the dynamical clusterization model</i>	
09:30 - 10:00	<b>KOLOMEITSEV Evgeni (Matej Bel University &amp; BLTP JINR)</b>	30'
	<i>Charge and isospin fluctuations in a non-ideal pion gas with dynamically fixed particle number</i>	
10:00 - 10:30	<b>KOVALENKO Vladimir (Saint Petersburg State University)</b>	30'
	<i>Correlations with charge and mean transverse momentum in pp and AA collisions at high energy in string fusion approach</i>	
10:30 - 11:00	<b>KHABANOVA Zhanna (Nikhef, Amsterdam)</b>	30'
	<i>Studies of collective effects in pp collisions at the LHC with the balance function for the identified particles</i>	
11:00 - 11:30	<b>ANDRONOV Evgeny (Saint Petersburg State University)</b>	30'
	<i>Multiplicity correlations with strongly intensive quantities</i>	
11:30 - 11:50	<b>Coffe break</b>	20'

### Session 13

11:50 - 12:20	<b>GONZALEZ Victor (GSI, Darmstadt)</b>	30'
	<i>Two-particle transverse momentum correlations in Pb-Pb collisions at <math>\sqrt{s_{NN}}=2.76</math> TeV</i>	
12:20 - 12:50	<b>MROWCZYNSKI Stanislaw (National Centre for Nuclear Research)</b>	30'
	<i>Production of light nuclei in relativistic heavy-ion collisions</i>	
12:50 - 13:20	<b>FRAGIACOMO Enrico (INFN Trieste)</b>	30'
	<i>Precise measurements of light-flavour resonances production with ALICE: new results and opportunities</i>	

### Closing

13:20 - 13:40	<b>LEDNICKY Richard (JINR)</b>	20'
13:40 - 14:40	<b>Lunch</b>	60'