Scientific Program

WPCF2013

IX WORKSHOP
ON
CORRELATION AND FEMTOSCOPY

5 – 8 November
Acireale (CT)
Italy

Sessions and conveners:

1 ***Femtoscopy for widely varying systems***
A. Chbihi (GANIL, France), A. Kisiel (WUT, Poland), S. S. Padula (UNESP, Brazil), E. Sarkisyan-Grinbaum(CERN, Switzerland)

2 ***Balance functions, charge correlations, isospin separation and diffusion***
P. Danielewicz (MSU, USA), S. Pratt (MSU, USA), S. Yennello (TAMU, USA)

3 ***Entrance channel effects on final-state anisotropies***
E. Greco (Un. Of Catania/INFN-LNS, Italy), B.A. Li (TAMU Commerce, USA), R. Snellings (Utrecht Univ., Netherlands)

4 ***Spectroscopy or Femtoscopy? Primordial versus final-state correlations***
M. Freer (Univ. of Birmingham, M.A. Lisa (OSU, USA), R. Nania (INFN-BO), M. Sumbera (ASCR, Czech Rep.)

5 ***Perspective facilities and detectors***
M. Bleicher (FIAS, Germany), D. Miskowiec (GSI, Germany), A. Pagano (INFN-CT)

5 November, Tuesday

09:00 – 09:10 **Welcome address**

Session 1: *Femtoscopy for widely varying systems* & Session 5: *Perspective facilities and detectors*

09:10 – 09:40 R. Lednicky, Joint Institute for Nuclear Research, Russia
Femtoscopic aspects of FSI, resonances and bound states

09:40 – 10:05 H. Zbroszczyk, Warsaw University of Technology, Poland
Femtoscopy for widely varying systems

10:05 – 10:35 M. Freer, University of Birmingham, United Kingdom
Cluster states and correlations in light nuclei

10:35 – 11:00 A. Chbihi, GANIL, France
Particle-Fragment correlations at intermediate energies

Coffee break

11:30 – 12:00 Y. Sinyukov, Bogolyubov Institute for Theoretical Physics, Ukraine
Source functions in heavy-ion collisions and p-Lambda scattering lengths

12:00 – 12:25 D. Gruyer, GANIL France
Coulomb chronometry to probe the decay mechanism of hot nuclei

12:25 – 12:45 E. De Filippo, INFN Sezione di Catania, Italy
Effects on dynamics and thermo-dynamics in nuclear reactions on the symmetry energy

12:45 – 13:10 G. De Angelis, INFN-LNF, Italy
The SPES project

Lunch break

Session 3: *Entrance channel effects on final-state anisotropy*

14:40 – 15:10 R. Snellings, Utrecht University, Netherlands
Anisotropic flow: past, present and future

15:10 – 15:40 R. Astalos, Comenius University, Slovakia
Measurements of the event shapes and underlying event in pp collisions at 7 TeV

15:40 – 16:05 S. Plumari, University of Catania, Italy
The elliptic flow and the shear viscosity of the QGP within a kinetic approach

16:05 – 16:30 S.S. Padula, UNESP - Instituto de Fisica Teorica, Brazil
Dihadron correlations and azimuthal anisotropy harmonics in pPb and PbPb at CMS

16:30 – 16:50 S. M. Dogra (UNESP - Instituto de Fisica Teorica, Brazil)
Inclusive hadron production in pp and p-Pb collisions from CMS

Coffee break

17:20 – 17:50 T. Csörgő, Wigner RCP, Hungarian Academy of Sciences, Hungary
Imaging the internal structure of protons with diffraction at LHC

17:50 – 18:15 W. Broniowski, Jan Kochanowski University, Poland
Density correlations in the Glauber model

18:15 – 18:35 Q. Wang, University of Kansas, USA
Measurements of flow in PbPb collisions at CMS

18:35 – 18:55 I. Selyuzhenkov, EMMI/GSI, Germany
Directed flow of charged particles at mid-rapidity relative to the spectator plane measured by ALICE

18:55 – 19:15 M.A. Lisa, Ohio State University
STAR's measurement of directed flow in the Beam Energy Scan at RHIC

Social event

6 November, Wednesday

Session 4: *Spectroscopy or Femtoscopy? Primordial versus final-state correlations*

08:45 – 09:10 M.A. Lisa, Ohio State University, USA
Correspondence between femtoscopy and resonance emission

09:10 – 09:35 P. Chaloupka, Czech Technical University in Prague, Czech Republic
Contribution of FSI formation of narrow resonances to femtoscopic measurements

09:35 – 10:05 Christina Markert, University of Texas, USA
Hadronic resonances in heavy ion collisions

10:05 – 10:30 A. Badalà, INFN, Sezione di Catania, Italy
Hadronic resonances in ALICE

10:30 – 10:50 L. Bianchi, INFN, Sezione di Torino, Italy & CERN, Switzerland
Inclusive J/psi production in Pb-Pb collisions with the ALICE at the LHC

Coffee break

Session 1: *Femtoscopy for widely varying systems*

11:20 – 11:45 V.Charviakova, University of Warsaw, Poland
Two-particle correlations at small relative momenta in collisions of Al+Al and Ni+Ni at 1.9A GeV

11:45 – 12:10 O. Arnold, Excellence Cluster Universe, Germany
Measuring two-particle correlations with HADES

12:10 – 12:30 I. Karpenko, Frankfurt Institute for Advanced Studies, Germany
Flow and femtoscopy at RHIC Beam Energy Scan in a viscous hydro+cascade model

12:30 – 12:50 R. Vertesi, Nuclear Physics Institute of the Czech Academy of Sciences, Czech Republic
Source imaging in RHIC 200 GeV Au+Au collisions

12:50 – 13:10 K. Poniatowska, Warsaw University of Technology, Poland
Pion-kaon femtoscopy for Au+Au collisions at sqrt(s_NN) = 39GeV from Beam Energy Scan program at STAR

Lunch break

Session 4 : *Spectroscopy or Femtoscopy? Primordial versus final-state correlations*

14:40 – 15:10 M. Marques, LPC-Caen, France
Correlations at the limits of nuclear existence

15:10 – 15:35 M. Assie, Institut de Physique Nucléaire, Orsay, France
The nuclear break-up: a tool to probe correlations in nuclei

15:35 – 16:00 L. Sobotka, Washington University, USA
High resolution continuum spectroscopy of light nuclei

16:00 – 16:20 G. Randisi, IKS KU Leuven, Belgium
Invariant mass spectroscopy of light neutron-unbound systems

16:20 – 16:40 T. Minniti, Univeristy of Catania, Italy
Imaging two-proton dynamical sources at intermediate energies

Coffee break

Session 1 : *Femtoscopy for widely varying systems* & Session 4 : *Spectroscopy or Femtoscopy? Primordial versus final-state correlations*

17:10 – 17:40 G. Stefanek, Jan Kochanowski University, Poland
System size and energy dependence of multiplicity fluctuations in AA and pp collisions

17:40 – 18:05 T. Humanic, Ohio State University, USA
A simple model for pi-pi, K0s-K0s, and Kch-Kch femtoscopy in 7 TeV p-p collisions

18:05 – 18:25 H. Zbroszczyk, Warsaw University of Technology, Poland
Proton femtoscopy in the STAR experiment

18:25 – 18:45 G. Nigmatkulov, National Research Nuclear University "MEPhI", Russia
Correlation femtoscopy of kaons in the SELEX experiment

18:45 – 18:55 M. Girard, Warsaw University of Technology, Poland
Kaon femtoscopy in Au-Au collisions at sqrt(s_{NN}) = 200GeV in STAR

18:55 – 19:05 C. Lang, University of Bielefeld, Germany
Dissipative corrections to anisotropic flow and multiparticle correlations

19:05 – 19:15 P. Mohanty, Saha Institute of Nuclear Physics, India
Study of anisotropic Quark-gluon plasma (aQGP) through Photon Interferometry.

Social Dinner

7 November, Thursday

Session 4: ***Spectroscopy or Femtoscopy? Primordial versus final-state correlations*** **& Session 5 :** ***Perspective detectors and facilities***

09:00 – 09:30 B. Borderie, Institut de Physique Nucléaire, Orsay, France
Hoyle state de-excitation studied by using particle correlation methods

09:30 – 09:55 K. Hagel, Cyclotron Institute, Texas A&M University, USA
Clustering and Low Density Nuclear Matter

09:55 – 10:20 H. Akimune, Department of Physics, Konan University, Japan
Search for alpha-cluster gas state in medium heavy nuclei

10:20 – 10:30 R. Planeta, Jagiellonian University, Krakov, Poland
Freeze-out configuration properties in the Au + Au reaction at 23 AMeV

10:30 – 10:40 R. Lednicky, Joint Institute for Nuclear Research, Russia
Status of the NICA facility

10:40 – 10:50 O. Lysenko, National Academy of Sciences of Ukraine, Ukraine
Preparation and characterization of single-crystal diamond for improved particle detectors

Coffee break

Session 2: ***Balance functions, charge correlations, isospin separation and diffusion***

11:15 – 11:45 G. Westfall, Michigan State University, USA
Balance Functions at RHIC

11:45 – 12:10 P. Christakoglou, NIKHEF, Netherlands
Angular correlation studies in Pb--Pb and p--Pb with ALICE

12:10 – 12:40 S. Pratt, Michigan State University, USA
Viewing the Chemistry of the QGP with Charge Balance Functions

12:40 – 13:00 A. Rodriguez Manso, Nikhef (NL), Netherlands
Charge dependent correlations in p-Pb at sqrt(s_{NN})=5.02 TeV and Pb-Pb at $\sqrt{s_{NN}}$ *= 2.76 TeV*

Lunch break

14:20 – 14:30 D. Dudek, IFT-Unesp, Brazil
Effects of equation of state on hydrodynamic expansion, spectrum and flow Harmonics

14:30 – 14:40 Maciej Rybczynski, Jan Kochanowski University, Poland
Imprints of cross-section fluctuations in nuclear collisions

14:40 – 14:50 S. Chatterjee, Centre for High Energy Physics, Indian Institute of Science, India
Strange Freezeout

14:50 – 15:00 M. Greif, Goethe University Frankfurt am Main, Germany
Transport coefficients of the QGP - models and analytics for heat/electric conductivity

15:00 – 15:10 T. Lilienkamp, University of Bielefeld, Germany
Azimuthally sensitive correlations induced by a small perturbation

15:10 – 15:20 Z. Wlodarczyk, Jan Kochanowski University, Poland
Statistical proporties of small systems

15:20 – 15:30 L. Tinti, Institute of Physics UJK, Poland
Hydrodynamics and the quantum stress-energy and spin tensors

15:30 – 16:00 **Coffee break and free time**

Social visit

8 November, Friday

Session 3: *Entrance channel effects on final-state anisotropy*

08:50– 09:15 T. Niida, Univ. of Tsukuba, Japan
Azimuthal angle dependence of HBT radii with respect to the event plane in Au+Au collisions at PHENIX

09:15 – 09:40 C. Plumberg, Ohio State University, USA
HBT interferometry relative to the triangular flow plane in heavy-ion collisions

09:40 – 10:05 V. Loggins, Wayne State University, USA
Azimuthally sensitive pion femtoscopy in Pb-Pb collisions at 2.76 TeV with ALICE

10:05 – 10:25 R. Marty, Frankfurt Institute for Advanced Studies, Germany
The influence of initial conditions on the final observables for heavy-ion collisions at RHIC energies

10:25 – 10:45 S. Bjelogrlic, Utrecht University, Netherlands
Heavy flavour elliptic flow and azimuthal angular correlations with ALICE

10:45 – 10:55 M. Csanad, Eötvös University, Hungary
Multipole solutions of relativistic hydrodynamics
(to be presented by T. Csörgő)

Coffee break

Section 2 : *Balance functions, charge correlations, isospin separation and diffusion* & Session 5 : *Perspective detectors and facilities*

11:25 – 11:55 M.B. Tsang, Michigan State University, USA
Isospin diffusion in heavy-ion collisions

11:55 – 12:20 Mircea Dan Cozma, IFIN-HH, Romania
Constraints on the high density dependence of the symmetry energy from heavy-ion collisions

12:20 – 12:40 G. Wilk, National Centre for Nuclear Research, Department of Fundamental Research, Poland
Surprisingly Close Tsallis Fits to High Transverse Momentum Hadrons Produced at LHC

12:40 – 13:00 J. Salzwedel, Ohio State University, USA
ALICE Upgrades and Future Femtoscopic Measurements

13:00 – 13:10 V. Konchakovski, Institute for Theoretical Physics, Giessen University, Germany
Initial conditions in 5 TeV p-Pb collisions within the PHSD transport approach

Lunch break

Session 1: ***Femtoscopy for widely varying systems & Session 4: Spectroscopy or Femtoscopy: Primordial versus final-state correlations***

14:45 – 15:15 D. Gangadharan, LBNL, USA
Chaoticity Measurements in Pb-Pb Collisions at sqrt(s_NN) = 2.76 TeV with ALICE

15:15 – 15:40 L. Graczykowski, Warsaw University of Technology, Poland
Two-pion femtoscopy in small systems with ALICE

15:40 – 16:00 R. Gupta, University of Jammu, India
A Monte Carlo Study of Chaoticity in Pb-Pb Collisions at LHC Energies

16:00 – 16:25 M.A. Janik, Warsaw University of Technology, Poland
Minijet effects in femtoscopic and angular correlations

16:25 – 16:50 M.P. Szymanski, Warsaw University of Technology, Poland
Residual correlations in baryon femtoscopy

Coffee break

Session 3: ***Entrance channel effects on final-state anisotropy***

17:20 – 17:45 W. Florkowski, Jan Kochanowski University, Poland
Locally anisotropic momentum distributions of hadrons at freeze-out in relativistic heavy-ion collisions

17:45– 18:10 F. Noferini, Enrico Fermi Centre (Rome) and INFN Sezione di Bologna, Italy
Anisotropic flow of identified particles in Pb-Pb collisions at sqrt(s_{NN}) = 2.76 TeV measured with ALICE at the LHC

18:10 – 18:30 I. Bouras, University of Frankfurt a.M, Germany
Investigation of Mach cones and the corresponding two-particle correlations in a microscopic transport model

18:30 – 18:50 Y. Hama, University of São Paulo, Brazil
On the origin of the centrality dependence of the ridge structure

18:50 – 19:10 C. Pajares, University of Santiago de Compostela, Spain
On the onset of the ridge structure in AA,pA and pp collisions

19:10 – 19:20 **Conclusions; Announcement for WPCF-2014**