

WPCF 2023 - XVI Workshop on Particle Correlations and Femtoscopy & IV Resonance Workshop 2023

Monday, November 6, 2023 - Friday, November 10, 2023

Program

Monday, November 6, 2023

Registrations: Registrations open (8:00 AM - 9:00 AM)

Day 1 - Morning: Session 1 (9:00 AM - 10:55 AM)

-Conveners: Elena Bratkovskaya

time	title	presenter
9:00 AM	Welcome Address by S. Romano, Director of the Physics and Astronomy Department, UNiversity f Catania	ROMANO, Stefano
9:15 AM	Tre facce della stessa medaglia: Coalescence, Thermal Production and the Koonin Equation	PRATT, Scott
9:40 AM	Femtoscopy in heavy-ion collision experiments at various μ_B	ZBROSZCZYK, Hanna
10:05 AM	Bose-Einstein correlations at LHCb	KUCHARCZYK, Marcin
10:30 AM	Proton-proton and proton-cluster femtoscopy at the HADES experiment	STEFANIAK, Maria

Coffee Break (10:55 AM - 11:20 AM)

Day 1 - Morning: Session 2 (11:20 AM - 1:15 PM)

-Conveners: Pawel Danielewicz

time	title	presenter
11:20 AM	Welcome address by the Director of the Laboratori Nazionali del Sud (LNS) of INFN, Santo Gammino	GAMMINO, Santo
11:35 AM	Coulomb effects on pion spectra and HBT correlations at few GeV/A beam energies	GUMBERIDZE, Malgorzata
12:00 PM	A novel method for calculating Bose-Einstein correlation functions with Coulomb final-state interaction	NAGY, Marton
12:25 PM	Studying the low-energy scattering among hadrons using correlation techniques at the LHC	MIHAYLOV, Dimitar
12:50 PM	Two-particle interferometry with Lévy-stable sources in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions at STAR	KINCSES, Daniel

Lunch (1:15 PM - 2:30 PM)

Day 1 - Afternoon: Session 3 (2:30 PM - 4:25 PM)

-Conveners: Vincenzo Greco

time	title	presenter
2:30 PM	Exotic Spectroscopy at LHCb	LESIAK, Tadeusz
2:55 PM	Microscopic Model for Quarkonia Production in Heavy-Ion collisions	AICHELIN, Joerg
3:20 PM	Hadronic resonance production with ALICE at LHC	LIM, Bong-Hwi
3:45 PM	Heavy flavour hadronization from AA to pp collisions	PLUMARI, Salvatore
4:10 PM	Charm and Bottom quarks dynamics in Heavy-Ion Collisions: anisotropic flows v_n and their correlations with Event-Shape Engineering technique.	SAMBATARO, Maria Lucia

Coffee Break (4:25 PM - 4:55 PM)

Day 1 - Afternoon: Session 4 (4:55 PM - 6:30 PM)**-Conveners: Sandra Padula**

time	title	presenter
4:55 PM	Production of resonances in partial chemical equilibrium	TOMÁŠIK, Boris
5:20 PM	Vector resonances as a probe of spin hydrodynamics	TORRIERI, Giorgio
5:45 PM	Searches for the Chiral Magnetic Effect in Xe--Xe and Pb--Pb collisions with ALICE	DANU, Andrea
6:00 PM	Flow and hyperon polarization at RHIC BES from multi-fluid dynamics	KARPENKO, Iurii
6:15 PM	Two-particle angular correlations of identified particles - recent developments and current status	GRACZYKOWSKI, Lukasz

Tuesday, November 7, 2023

Day 2 - Morning: Session 5 - Special Session on Stellar Intensity Interferometry (9:00 AM - 10:45 AM)

-Conveners: Giuseppe Verde

time	title	presenter
9:00 AM	Introduction to Stella Intensity Interferometry	LISA, Michael
9:05 AM	An Angular Diameter Measurement of Merak via Stellar Intensity Interferometry with VERITAS	LISA, Michael
9:30 AM	Stellar Intensity Interferometry at H.E.S.S.	VOGEL, Naomi
9:55 AM	Intensity interferometry with optical telescopes: recent progress and future plans	GUERIN, William
10:20 AM	Astronomical HBT interferometry: inside-out femtoscopy?	SAHA, Prasenjit

Coffee Break (10:45 AM - 11:15 AM)

Day 2 - Morning: Session 6 (11:15 AM - 1:10 PM)

-Conveners: Tamas Csorgo

time	title	presenter
11:15 AM	Search for collective behavior in very small and in large colliding systems	PADULA, Sandra
11:40 AM	Femtoscopy of $p - \Lambda$ system obtained in heavy-ion collision in the HADES experiment	RATHOD, Narendra
12:05 PM	Forward correlations with the LHCb detector	BELIN, Samuel
12:30 PM	Forward-backward correlations with the Σ quantity in the wounded-constituent framework at energies available at the CERN LHC	SPUTOWSKA, Iwona
12:55 PM	Probing particle production and transport in small collision systems with ALICE	TARASOVICOVA, Lucia Anna

Lunch (1:10 PM - 2:30 PM)

Day 2 - Afternoon: Session 7 (2:30 PM - 4:15 PM)

-Conveners: Paola La Rocca

time	title	presenter
2:30 PM	Dineutron correlation in neutron drip-line nuclei	KUBOTA, Yuki
2:55 PM	On the long-standing quest for the tetra-neutron system: a recent observation of four-neutron correlations and future perspectives	PASCHALIS, Stefanos
3:20 PM	Perspectives on neutron detection and multi-neutron correlations measurements at FRIB	REVEL, Aldric
3:45 PM	NArCoS: a new correlator for neutrons and charged particles with high angular and energy resolution	PAGANO, Emanuele Vincenzo
4:00 PM	Geant4 simulations to study the efficiency and the cross-talk probability in the new neutron correlator NArCoS	SANTAGATI, Gianluca

Coffee (4:15 PM - 4:45 PM)

Day 2 - Afternoon: Session 8 (4:45 PM - 6:45 PM)

-Conveners: Francesca Bellini

time	title	presenter
4:45 PM	Matter - antimatter interactions	JANIK, Malgorzata
5:10 PM	Charged kaon and pion femtoscopy in the RHIC Beam Energy Scan at the STAR experimen	KHYZHNIAK, Yevheniia
5:35 PM	Hidden puzzle of the correlation femtoscopy at the top RHIC and LHC energies and its possible solution	SINYUKOV, Yuri
5:50 PM	Non-equilibrium effects and sphericity in relativistic proton-nucleus collisions	OLIVA, Lucia
6:15 PM	Probing the dynamical evolution of QGP using charge-dependent correlations and fluctuations at CMS	CHATTERJEE, Sayan
6:30 PM	Flow correlations and flow-transverse momentum correlations at ALICE	ZHAO, Mingrui

Wednesday, November 8, 2023

Day 3 - Morning: Session 9 (9:00 AM - 10:40 AM)

-Conveners: Maria Colonna

time	title	presenter
9:00 AM	Investigating clustering in ^{12}C using gamma-beams and a TPC detector	SMITH, Robin
9:25 AM	Probing the ^{12}C Hoyle state radius using double-excitation inelastic scattering	GRUYER, Diego
9:50 AM	Proton-proton correlations in ground-state two-proton radioactivity	MAZZOCCHI, Chiara
10:15 AM	Three-body resonances and two-nucleon decays	CASAL, Jesús

Coffee Break (10:40 AM - 11:10 AM)

Day 3 - Morning: Session 10 (11:10 AM - 1:10 PM)

-Conveners: Scott Pratt

time	title	presenter
11:10 AM	Timing the hadronic rescattering phase with non-identical particle femtoscopy	KISIEL, Adam
11:35 AM	First measurement of properties of strong interaction between (anti-)deuterons and charged kaons in Pb–Pb collisions with ALICE	RZEŃSA, Wioleta
12:00 PM	Precise physics of atomic species utilizing antimatter	SOWINSKI, Tomasz
12:25 PM	Constraining the light (anti)nuclei production in and out of jets in small systems with ALICE	RASÀ, Marika
12:40 PM	Correlations between anisotropy flow and mean transverse momentum using subevent cumulants in small systems at CMS	SINGH, Rohit Kumar
12:55 PM	Evaluation of the thermal photon radiation from a recent solution of relativistic hydrodynamics	KASZA, Gábor

Lunch (1:10 PM - 2:30 PM)

Day 3 - Afternoon: Session 11 (2:30 PM - 4:25 PM)

-Conveners: Michael Lisa

time	title	presenter
2:30 PM	Study of exotic f_0 and f_1 states with ALICE	BELLINI, Francesca
2:55 PM	Resonance production in the STAR experiment	NASIM, Mohammad
3:20 PM	In-medium effects in ϕ meson production in heavy-ion collisions from subthreshold to relativistic energies	BRATKOVSKAYA, Elena
3:45 PM	LHCb on technical aspects how to search and find resonances, also using AI techniques.	GANDINI, Paolo
4:10 PM	Measurement of azimuthal anisotropy of the $f_0(980)$ and D^0 mesons in heavy ion collisions at CMS	SAHA, Nihar Ranjan

Coffee break (4:25 PM - 4:45 PM)

Thursday, November 9, 2023

Day 4 - Morning: Session 12 (9:00 AM - 10:45 AM)

-Conveners: Angela Badala'

time	title	presenter
9:00 AM	Resonance production with EPOS4 and the role of collectivity in elementary collisions	WERNER, Klaus
9:25 AM	Experimental highlights on collectivity in small collision systems	CALIVÀ, Alberto
9:50 AM	Sources of multiparticle correlations – a microscopic perspective	BIERLICH, Christian
10:15 AM	Investigating collective effects in small collision systems using PYTHIA8 and EPOS4 simulations	MANEA, Alexandru
10:30 AM	Two-particle angular correlations of identified particles in pp and p-Pb collisions at LHC energies	RUGGIANO, Daniela

Coffee Break (10:45 AM - 11:15 AM)

Day 4 - Morning: Session 13 (11:15 AM - 1:10 PM)

-Conveners: Adam Kisiel

time	title	presenter
11:15 AM	Searching for Internal Pair Creation anomalies and the X17 boson at LNL.	MARCHI, Tommaso
11:40 AM	Searching for the X17 with the PADME experiment	FERRAROTTO, Fabio
12:05 PM	Dielectron measurements with ALICE	APPELSHÄUSER, Harald
12:30 PM	Photon-photon correlations in Ag+Ag collisions at $\sqrt{s_{NN}}=2.55$ GeV	GRUNWALD, Mateusz
12:55 PM	Possibilities for phase and source function reconstruction in HBT correlations and in elastic proton-proton scattering	CSORGO, Tamas

Lunch (1:10 PM - 2:30 PM)

Day 4 - Afternoon: Session 14 (2:30 PM - 4:00 PM)

time	title	presenter
2:30 PM	Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at 5.02 TeV	CSANAD, Mate
2:55 PM	Femtoscopy with Lévy sources at NA61/SHINE	PORFY, Barnabas
3:20 PM	Spheroidal expansion and freeze-out geometry of heavy-ion collisions in the few-GeV energy regime	KOLAS, Jędrzej
3:45 PM	Latest results on heavy flavor hadron anisotropic flow in the CMS experiment	GALLEGOS MARIÑEZ, Luis Gabriel

Coffee Break (4:00 PM - 4:30 PM)

Day 4 - Afternoon: Session 15 (4:30 PM - 5:45 PM)

time	title	presenter
4:30 PM	Entanglement Enabled Spin Interference	BRANDENBURG, Daniel

4:55 PM	First characterization of Short-Range Correlations in an exotic nucleus at R3B	LAGNI, Andrea
5:20 PM	Correlation Functions and Signatures of Short-Range Correlations in collisions of intermediate energy projectiles	HAGEL, Kris

Social Dinner (8:00 PM - 12:00 AM)

Friday, November 10, 2023

Day 5 - Morning: Session 16 (9:00 AM - 10:40 AM)

time	title	presenter
9:00 AM	Non-identical femtoscopy in Au+Au collisions at $\sqrt{s_{NN}} = 3$ GeV in STAR	TRIPATHY, Srikanta
9:25 AM	Femtoscopic measurements from STAR to CBM	WIELANEK, Daniel
9:50 AM	Advanced coalescence model based on femtoscopy measurements	PINTO, Chiara
10:15 AM	Correlation Function constraints on meson-baryon interaction from UChPT in $S=-2$ sector	VIDANA HARO, Isaac

Coffee Break (10:40 AM - 11:10 AM)

Day 5 - Morning: Session 17 (11:10 AM - 1:00 PM)

-Conveners: Hanna Zbroszczyk

time	title	presenter
11:10 AM	Kinetic and potential mechanisms for deuteron production in HICs within the PHQMD transport approach	COCI, Gabriele
11:35 AM	Investigating strangeness enhancement via in-jet and medium production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE	BLAIR, Justin
12:00 PM	Measurements of $pp, p\Lambda, p\Xi$ Correlation Functions at 3GeV Au+Au Collisions at RHIC-STAR	QIN, Zhi
12:15 PM	Femtoscopic correlations of lightest nuclei	MROWCZYNSKI, Stanislaw
12:30 PM	Study of the three-body dynamics at short range via femtoscopy by ALICE at the LHC	VAZQUEZ DOCE, Oton
12:45 PM	Femtoscopic correlation studies between D0 mesons and charged hadrons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV by STAR	ROY CHOWDHURY, Priyanka

Lunch (1:00 PM - 2:30 PM)

Day 5 - Afternoon: Session 18 (2:30 PM - 4:05 PM)

-Conveners: Joerg Aichelin

time	title	presenter
2:30 PM	Event-by-event Hadron Yield Fluctuations in Pb — Pb Collisions at $s_{NN} = 2.76$ TeV with ALICE	PRUNEAU, Claude
2:55 PM	Correlation Function studies at intermediate energies at CSHINE	WANG, Yijie
3:20 PM	The OSCAR correlator for low energy nuclear reactions and heavy-ion collisions	REDIGOLO, Luigi
3:35 PM	The pixelation technique applied to FARCOS correlator in the CHIFAR experiment	ZAGAMI, Cristina
3:50 PM	A Pixellation method for the FARCOS array	CARDELLA, Giuseppe

Coffee Break (4:05 PM - 4:35 PM)

Day 5 - Afternoon: Session 19 (4:35 PM - 6:30 PM)

-Conveners: Isaac Vidana Haro

time	title	presenter
4:35 PM	Deuteron-Xi correlation function studied with three-body model	FUKUI, Tokuro
5:00 PM	Probing Equation of State of Dense Baryonic Matter with Heavy-Ion Collisions and Transport Simulations	DANIELEWICZ, Pawel
5:25 PM	Source function from two-particle correlations via deblurring	NZABAHIMANA, Pierre
5:50 PM	Kinetic approach for light-nuclei production in intermediate heavy-ion collisions	WANG, Rui