

Session Program

22-27 Sept 2024

**12th International Conference on Hard and
Electromagnetic Probes of High-Energy
Nuclear Collisions**

Poster Session

DEJIMA MESSE NAGASAKI
4-1, Onouemachi, Nagasaki City, Nagasaki, 850-0058 Japan

Tuesday 24 September

16:35

Poster Session

Poster Session | **Location:** DEJIMA MESSE NAGASAKI, 4-1, Onouemachi, Nagasaki City, Nagasaki, 850-0058 Japan

Applications of monolithic CMOS pixel sensor to medical physics

Speaker

Fabio Colamaria

Event-by-event mean transverse momentum fluctuations in pp collisions at $\sqrt{s} = 13$ TeV using ALICE detector

Speaker

Ms Bushra Ali

Intermediate Silicon Tracker in sPHENIX at RHIC

Speaker

Cheng-Wei Shih

First study of azimuthal correlations of electron-muon pairs from heavy-flavor decays in proton-proton collisions with ALICE

Speaker

Shunsuke Kurita

Quantifying in-medium jet structure modification and medium response with direct photon and pi-zero triggered hadron correlations in PHENIX

Speaker

Anthony Hodges

Λ_c -N interaction from Lattice QCD at physical point

Speaker

Liang Zhang

Dielectron production and topological separation of dielectron sources with ALICE

Speaker

Florian Eisenhut

Probing the shower properties of charm quarks using energy-energy correlators with ALICE

Speaker

Preeti Dhankher

Testing the flavour dependence of QCD parton showers using heavy-flavour jet substructure with ALICE

Speaker

Vit Kucera

Factorization and jet functions in heavy-ion collisions

Speaker

Carlos Lamas

No-quenching baseline for energy-loss signals in small system collisions

Speaker

Dr Aleksas Mazeliauskas

Reconstruction of photons and neutral mesons in heavy-ion collisions with MPD at NICA**Speaker**

Yonghong Wang

Flavor, parton-mass, and path-length dependence of energy loss in heavy-ion collisions at the LHC**Speaker**

Martin Rybar

Correlation of strangeness production with charged hadrons in proton-proton collisions with ALICE**Speaker**

Kai Cui

Observation of top-quark pair production in heavy-ion collisions in the ATLAS experiment**Speaker**

Patrycja Anna Potepa

Study of modified near-side jet peak structure in a longitudinally boosted flowing medium in PbPb collisions with CMS**Speaker**

Sayan Chatterjee

Studying the interplay of medium effects on heavy quarks and quarkonia using high-precision charmonium measurements in PbPb collisions with CMS**Speaker**

Gyeonghwan Bak

Modification of jets travelling through a brick-like medium**Speaker**

Chiara Le Roux

Jet spectra evolution as a function of center of mass energy in pp collisions with ALICE**Speaker**

Archita Rani Dash

Investigating high- p_T azimuthal anisotropies in small systems using T-odd parton distribution functions**Speaker**

Dr ismail soudi

First D^0 -tagged jet axes difference measurement in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE**Speaker**

Emma Yeats

X-SCAPE as a universal Event Generator for e+p, e+e- and pp collisions

Speaker
Rainer Fries

Imaging the Jet-Induced Medium Response with Energy Correlators

Speaker
Ananya Rai

Low-mass, low-momentum virtual photon measurements with HADES at SIS18

Speaker
Ms Iuliana-Carina Udrea

Exploring the universality of jet quenching via Bayesian inference

Speaker
Alexandre Falcão

Thermalization and Hydrodynamization in Small and Large Systems

Speaker
Cendikia Abdi

Decoding the composition of QCD matter with the polarization of thermal dileptons

Speaker
Florian Seck

Dimuon measurement in low and intermediate mass region in $\sqrt{s} = 13.6$ TeV pp collisions at ALICE

Speaker
Motomi Oya

Underlying event characterization in 200 GeV Au+Au collisions for jet measurements with the sPHENIX detector

Speaker
Benjamin Kimelman

Beam test results for the new prototype ITS3 sensor design

Speaker
Tucker Hwang

Exploring hadronization with heavy-flavor jets with LHCb

Speaker
John Matthew Durham

Measuring thermal dimuons at high baryochemical potential with the NA60+ experiment at the CERN SPS

Speaker
Gianluca Usai

Backreaction of QGP fluids from recoil partons

Speaker
Shoto Sakuma

First Measurements of Charged-Particle Jet Production in pp Collisions at $\sqrt{s} = 13.6$ TeV with ALICE

Speaker
Joonsuk Bae

SUBA-Jet framework for jet and medium production in heavy-ion collisions at high energies

Speaker
Dr Iurii Karpenko

Investigating virtual photon polarization via $\gamma^* \rightarrow \mu\mu$ in Pb-Pb at $\sqrt{s_{NN}}=2.76$ TeV by numerical calculation

Speaker
Kento Kimura

HGCROC v2 readout chip characterization and radiation tolerance for FoCal E-pad detector in ALICE

Speaker
Taichi Inukai

Hanbury-Brown-Twiss signature for clustered substructures probing primordial inhomogeneity in hot and dense QCD matter

Speaker
Kenta Shigaki

Nuclear shapes and spectator production

Speaker
Dr Wilke Van Der Schee

Charmonium production at midrapidity using TRD-triggered data measured in ALICE

Speaker
Jinjoo Seo

A systematic primer for the rescattering of heavy flavor hadrons

Speaker
Renan Hirayama

Novel use of generative AI for heavy ion experiments

Speaker
Yeonju Go

Probing the medium with heavy quark using effective field theory

Speaker
Jyotirmoy Roy

Charged beauty-tagged jet measurement with impact parameter method in proton--proton collisions in Run3

Speaker
Hyungjun Lee

Study of Neutron Irradiation of p-type Silicon Sensor for future calorimeter

Speaker
Yuka Sasaki

Position alignments and vertex determination for sPHENIX INTT detector

Speaker

Ms Mahiro Ikemoto

Measurement of identified charged-hadron and π^0 production in p + Al, 3He + Au, Cu + Au, and U + U collisions at PHENIX**Speaker**

Dr Susumu Sato

Non perturbative effect in charm diffusion and flow from Gribov-Zwanziger approach**Speaker**

Xueqiang Zhu

Direct photon emission of QCD matter with Tsallis statistics**Speaker**

Dr Akihiko Monnai

Development and Simulation of Backward Hadronic calorimeter for the ePIC detector at EIC**Speaker**

Alexandr Prozorov

b-jet tagging in pp collisions using graph neural network with the ALICE experiment**Speaker**

Changhwan Choi

(Non-)Perturbative aspect of the high multiplicities in jets**Speaker**

Prof. Weiyao Ke

Probing medium response by measuring (anti-)proton to pion ratio and charged particles radial profile with jet in Pb-Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with ALICE Primary tabs View(active tab)**Speaker**

Taketo Yokoo

Measurements of inclusive J/ψ and $\psi(2S)$ production at midrapidity in pp collisions at $\sqrt{s} = 13.6$ TeV with ALICE**Speaker**

Yuan Zhang

Production of electrons from open beauty-hadron decays in pp collisions at $\sqrt{s} = 13$ TeV with ALICE**Speaker**

Jonghan Park

SMOG2: a high-density gas target at the LHCb experiment**Speaker**

Federica Fabiano

Studies of nucleon structure at LHCb**Speaker**

Cesar Luiz Da Silva

The measurement of Drell-S\ddot{o}ding process through exclusive $\pi^+\pi^-$ pair photoproduction in ultraperipheral Au+Au collisions at 200 GeV

Speaker

Xinbai Li

Flow and correlation measurements at LHCb

Speaker

Jianqiao Wang

Recent studies of open charm production at LHCb

Speaker

Mr Yiheng Luo

Bottomonium production measurements at LHCb

Speaker

Chenzhi Dong

Open heavy-flavour and quarkonium measurements with the forthcoming NA60+ experiment

Speaker

Enrico Scapparini

Integrating Energy Flow Networks with Jet Substructure Observables for Enhanced Jet Quenching Studies

Speaker

João A. Gonçalves

Jet-induced hydro response estimation with Flow-model based Generative neural network in heavy-ion collisions

Speaker

Kaiyi Wu

Medium induced shower in an expanding QCD plasma

Speaker

Dr ismail soudi

Jet Azimuthal Anisotropies from RHIC to LHC

Speaker

Dr Daniel Pablos

Conductivity of quark-gluon plasma from charged particles and photons

Speaker

Nicholas Benoit

Investigating hadronisation and light-nuclei formation in vacuum and dense environments

Speaker

Valentina Zaccolo

Jet modification in the QGP and the hadronic phases with SUBA-Jet framework

Speaker

Josef Bobek

The modified dilepton production rate from charged pion-pair annihilation in the inhomogeneous chiral condensed phase

Speaker

Kentaro Hayashi

Method of semi-inclusive jet mass measurement in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV with STAR

Speaker

jeongmyung kang

Direct virtual photon production in Au+Au collisions with STAR BES-II data

Speaker

xianwen bao

Event-shape engineering of high-momentum probes in Au+Au collisions

Speaker

Isaac Mooney

Observing jet quenching using generalized jet angularities in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV from STAR

Speaker

Mr Diptanil Roy

Minijet quenching in non-equilibrium quark-gluon plasma

Speaker

Luyao Fabian Zhou

Production of ω mesons in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE

Speaker

Merle Luisa Walde

b-jet cross section measurement using heavy-flavour tagging with secondary-vertex method in pp collisions at 13.6 TeV with ALICE

Speaker

Hanseon Park

Quarkonia collectivity in proton-proton and Pb-Pb collisions with ALICE

Speaker

Chi Zhang

Monte Carlo studies of energy-energy correlators for D^0 -tagged jets in pp collisions

Speaker

Beatrice Liang-Gilman

Energy-energy correlators in p-Pb collisions at 5 TeV with the ALICE experiment

Speaker

Anjali Nambrath

Quarkonium suppression in strongly coupled plasmas

Speaker

Bruno Sebastian Scheiing Hitschfeld

Performance of the dielectron analysis in Pb-Pb collisions in Run 3 with ALICE**Speaker**

Emma Charlotte Ege

Understanding photon TMDs with light front wavefunction**Speaker**

Satyajit Puhan

Measurement of multiplicity dependent X_{ic0} via semileptonic decay channel in pp collisions at 13 TeV with ALICE**Speaker**

Chong Kim

Measurement of the transverse momentum (j_{\perp}) distributions of charged-particle jet fragments in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE**Speaker**

Jaehyeok Ryu

Investigating high-pT v_2 with a multi-phase transport model**Speaker**

Jie Wan

Intelligent experiments through real-time AI: Fast Data Processing and Autonomous Detector Control for sPHENIX and future EIC detectors**Speaker**

Hannah Bossi

Study of background effects for jet analyses with Run 3 data in ALICE**Speaker**

Yaxian Mao

Probing initial state effects in nuclear collisions via dijet and spectator neutron measurements with the ATLAS detector**Speaker**

Matthew Caleb Hoppesch

Jet radius dependence of dijet momentum balance and pair nuclear modification factor in Pb+Pb and pp collisions with the ATLAS detector**Speaker**

Anne Marie Sickles

Effects of perturbative and non-perturbative heavy quark transport on B_c production in heavy-ion collisions**Speaker**

Ms Lejing Zhang

Deep learning on jet modification in the presence of the QGP background**Speaker**

RAN LI

The effects from higher order coupling of fluctuations of spin hydrodynamics in high energy heavy-ion collisions

Speaker

Lixin Yang

New toy model simulation for elucidating the parton energy loss mechanism depending on path-length within the quark-gluon plasma medium

Speaker

Takuya Kumaoka

Strangeness studies in LHCb heavy-ion collisions

Speaker

Jianqiao Wang

Helium identification and production at LHCb

Speaker

Julie Lane Marie Berkey

18:30