Session Program

12–16 Dec 2022

XXV DAE-BRNS High Energy Physics Symposium 2022

Poster - 2

IISER Mohali, Lecture Hall Complex, IISER Mohali
IISER Mohali, Sector 81, Knowledge city, SAS Nagar, Punjab, India

Tuesday 13 December

14:00

Poster - 2: D2

Poster Session |
Location: IISER Mohali, LHC Foyer, Lecture Hall Complex, IISER Mohali, Sector 81, Knowledge city, SAS Nagar, Punjab, India |
Conveners: Dr Vishal Bhardwaj, Dr Satyajit Jena, Ambresh Shivaji

Strange baryons production in Au+Au collisions at $\sqrt{s_{NN}}$ = 19.6 GeV from STAR

Speaker
Sameer Aslam

FPGA based Time Calibration Trigger System for the GRAPES-3 experiment

Speaker
Mr A. Jain

Poster: Exploring millicharged dark matter components from the shadows

Speaker
Lalit Singh Bhandari

Exploring the leptonic CP violation in two zero textures

Speaker
Ms Jayati Prabhakar

A study of elliptic flow in a deep learning framework

Speaker
Neelkamal Mallick

Exploring the specific shear viscosity (η/s) of quark-gluon plasma using the high $p_\perp$ observables

Speaker
Bithika Karmakar

Sensitivity study of $B\to\pi\ell^{+}\ell^{-}$ decays at the Belle II experiment

Speaker
RISHABH MEHTA

Geometric Quantization of a Constrained System

Speaker
Vipul Kumar Pandey

Higgs boson-like high mass resonance search in the H → ZZ → 2l2q decay channel at =13TeV using CMS experiment data

Speaker
Aloke Kumar Das

Search for a vector-like quark T′ → tH in the diphoton decay mode of the Higgs boson in proton-proton collisions at √s = 13 TeV

Speaker
Prafulla Saha

THE 3 FOLDS 4-DIMENSIONAL UNIVERSE

Speaker
Yogesh Chavan

Type II Dirac Seesaw with Observable $\Delta N_{\rm eff}$ in the light of W-mass Anomaly

Speaker
SATYABRATA MAHAPATRA

Retrieving Inverse Seesaw parameter space for Dirac Phase Leptogenesis

Speaker
Ananya Mukherjee

Search for the decay $B^0\rightarrow \gamma\gamma$ at Υ(4S) resonance

Speaker
Mr Dibyajyoti Kalita

Impact of finite volume on thermodynamic properties of quark matter within Polyakov quark meson model

Speaker
Nisha Chahal

Quasi-characters in $\widehat{su}(2)$ current algebra at fractional levels

Speaker
Sachin Grover

mpact of Effective Spectral function and Transverse Enhancement on Extraction of Neutrino Oscillation Parameters in NOνA Experiment

Speaker
Ms Paramita Deka

Shock formation in magnetized wakes of cosmic strings.

Speaker
Mr Soumen Nayak

Emergent new symmetry from the Higgs shadow

Speaker
anjan barik

Olsson.wl : a Mathematica package for the computation of linear transformations of multivariable hypergeometric functions

Speaker
Souvik Bera

Search for the decay B → D∗ηπ in Belle (II).

Speaker
Ms VISMAYA V S

The Inflaton in Quantum Impedance Networks of Higgs Mode Dynamics

Speaker
peter cameron

Cut-Based Photon ID Tuning and Comparison Studies

Speaker
Shubham Dutta

Optimisation of Operating High Voltage of large area Resistive Plate Chambers for the ICAL experiment

Speakers
Gobinda Majumder, Pethuraj Sankaranarayanan

Elliptic flow of strange hadrons in Au+Au collisions at E_{lab} = 35~A GeV using the PHSD model

Speaker
Mr Towseef Ahmad Bhat

Current Status and Future Outlook of Neutrinoless Double Beta Decay Searches

Speaker
Ms Lisha Lisha

Study of traversable wormhole in $f(R)$ gravity

Speaker
Mr PARTHA PRATIM NATH

Study of the $B^{0} \rightarrow \gamma\gamma$ decay at Belle and Belle II

Speaker
Ms Shubhangi Krishan Maurya

Dissociation baryonic chemical potential of the QGP at momentum anisotropy with Quasi-Particle approach

Speaker
Siddhartha Solanki

Charged pion energy reconstruction in HGCAL TB prototype using graph neural networks

Speaker
Alpana Alpana

Baryon Asymmetry and Corrections to Scaling Neutrino Mass Matrix in Type-I+II Seesaw Model under A$_4$ Modular Invariance

Speaker
Monal Kashav

Unruh quantum Otto engine in the presence of a reflecting boundary

Speaker
Arnab Mukherjee

Nonlinear Constraints Abelianization of a Prototypical Second-Class System using BFFT method

Speaker
Dr Vipul Kumar Pandey

Measurement of leading charged-particle jet properties in p--Pb collisions at $ \sqrt{s_{\rm NN}}$ = 5.02 TeV with ALICE

Speaker
Prottoy Das

Probing $B \to K^{*}(892) \gamma$ decays at Belle II experiment

Speaker
Rahul Tiwary

Comparitive study of multiplicity fluctuations and evidences of intermittency in 14.5A GeV/c 28Si-AgBr collisions

Speaker
Anju Sharma

Search for glueball candidates via KK decay channel in pp collisions with ALICE at the LHC

Speaker
Dukhishyam Mallick

Evidence for Boundary Quantum Gravity: Aspects of a Bulk Geometric Torsion

Speaker
Mr Rohit K. Gupta

Light Higgs searches at the CMS detector

Speaker
Anirban Bala

Probing non-standard neutrino interactions with a light boson from next galactic and diffuse supernova neutrinos

Speaker
Dr Mehedi Masud

Flavour bounds on the flavon of a minimal Z2×ZN symmetry

Speaker
NEELAM SINGH Research Scholar, Physics, IIT(BHU)

Magnetized Quark Gluon Plasma Evolution

Speaker
Mr Gaurang Kuksal

Renormalization-group and $Pad\acute{e}$-improved Higgs to two gluons decay rate

Speaker
VARTIKA SINGH Res. Scholar, Physics, IIT(BHU)

AI-based models in INO-ICAL: An overview of applications and studies

Speaker
Lakshmi Murgod

Angular Dependence of Cosmic Muon Flux - Experimental Measurement and Simulation

Speaker
Souvik Chattopadhay

Exactly solvable model of a damped harmonic oscillator affected by magnetic field in a time dependent noncommutative space

Speaker
MANJARI DUTTA

Analysing the S-wave charmonium decays of B_c meson

Speaker
Shantanu Sahoo

Impact of Landau quantization on Chandrasekhar limit

Speaker
SUMIT KUMAR MAHESHWARI

Probing the role of mutual informtion in the Page curve

Speaker
Mr Ashis Saha

Entropic force and real-time dynamics of holographic quarkonium in a magnetic field

Speaker
Siddhi Swarupa Jena

Estimation of diffusion coefficients of heavy quarks under Gribov-Zwanziger action.

Speaker
Sadaf Madni

A minimal dark matter model with vector like fermions

Speaker
Najimuddin Khan

Parameter space for low-energy CP phases and low scale leptogenesis within Inverse seesaw model.

Speaker
Bikash Thapa

EXPLORING LEPTONIC CP-ODD WEAK BASIS INVARIANTS IN HYBRID TEXTURES OF NEUTRINO MASS MATRIX

Speaker
Dr Madan Singh

Multi-messeger study of TXS 0506+056 blazar

Speaker
Sunanda .

Cornering the SMEFT interactions of Higgs through Higgs-Photon production at the LHC

Speaker
Tisa Biswas

Effective Hamiltonian for a quark-antiquark system in heavy-flavor QCD

Speaker
Jai More

NMSSM Higgs boson at the LHC

Speaker
Ms Surabhi Gupta

Calibration of electrons or photons reconstructed by the Level 1 Trigger of CMS for Run3

Speaker
Sweta Baradia

WIMP and Self Interacting FIMP dark matter in the context of Singlet Doublet Moldel

Speaker
sudipta show

Monojet signatures to study standard model extensions including non-thermal dark matter candidates

Speaker
Amandeep Kaur Kalsi

Discussing lepton flavor violation(LFV) in $B\to $ tensor Decays

Speaker
Dr Ria sain

Decoding the Charged Lepton Yukawa from the Higgs measurements

Speaker
Dr Ratan Sarkar

Strange and Non-strange Sea Quark-gluon Effects for Pions

Speakers
Ms Preeti bhall, Mrs Sherel jagdev

A new method to determine muon multiplicity at the GRAPES-3 experiment

Speaker
Ronald Scaria

Neutrino masses from the departure of Tribimaximal neutrino mixing matrix, CP Violation and non-zero Θ13

Speaker
Animesh Barman

Hawking radiation as quantum mechanical reflection

Speaker
Pabitra Tripathy

Status of mesons in the hidden strange sector

Speaker
Dr Tanvi Bhavsar

Study of Photon energy bias using π^{0} → γγ decays from D^{∗+} → D^{0}(→ K^{−}π^{+}π^{0})π^{+} at Belle II.

Speaker
Ms Chanchal Sharma

Measurement of PYTHIA8-based effective cross-section using underlying event data

Speaker
Ramandeep Kumar

Utmost Precision on 2-3 Oscillation Parameters using the synergy among DUNE and T2HK

Speaker
Ritam Kundu

W mass anomaly from CDF-II and neutrino phenomenology in minimal type-III seesaw using $\rm T^\prime$ modular symmetry

Speaker
Priya Mishra

Estimation of Bjorken initial energy density in p-p collisions

Speaker
Mohammad Asif Bhat

Investigating the effect of new physics on $ \Upsilon$ and ψ leptonic decays

Speaker
Dhiren Panda

Tachyonic Potential with Power Law and Polynomial Function for Accelerated Expansion of the Universe

Speaker
Sovan Ghosh

S-wave charm and bottom baryons in HQET

Speaker
Kundan Kumar

Analysis for Non Thermal Phase Transitions in Relativistic Heavy Ion Collisions

Speaker
Dr Mir Hashim Rasool

Neutrino Mass Ordering with Atmospheric, long baseline and reactor experiments

Speaker
Deepak Raikwal

Seesaw dominance effects for neutrinoless double beta decay in left-right symmetric lens

Speaker
Mr Vivek Banerjee

Slow-roll inflaton potential through Kahler moduli stabilizations with two non-perturbative corrections in type IIB/F-theory

Speaker
Mr Abhijit Let

Effect of Magnetic Field on 1P states of the Heavy Quarkonia

Speaker
Mr Manohar Lal

Effective suppression of r-modes within hyperonic stars

Speaker
Dr V. Sreekanth

Study of the lepton flavour violating decays Bs to electron+muon

Speaker
Sanjeev Kumar

Correlation of streamer pulse with contaminants in the RPC detector.

Speaker
Umesh L

Measurement of Magnetic field at mini-ICAL and comparison with the MAGNET simulation

Speaker
Ms Honey Khindri

Sensitivity of nuclear density profiles to global observables in O-O collisions at the Large Hadron Collider using AMPT Model

Speaker
Debadatta Behera

MEASUREMENTS OF THE RATIO OF PARTIAL WIDTHS $\Gamma(D_{s}^{*+} \to D_{s}^{+}\pi^{0})/\Gamma(D_{s}^{*+ } \to D_{s}^{+}\gamma)$

Speaker
Latika Aggarwal

Cogenesis of visible and dark sector asymmetry in a minimal seesaw framework

Speaker
Lekhika Malhotra

Addressing flavor anomalies, $(g-2)_{\mu}$, neutrino mass and matter-antimatter asymmetry of the universe within SO(10) GUT with a scalar leptoquark and scalar triplets

Speaker
PRATIK ADARSH

A POSSIBLE SOLUTION TO THE HUBBLE TENSION FROM QUANTUM GRAVITY

Speaker
Anupama B

Volume of a rotating black hole in 2+1 dimensions

Speaker
Mr Suraj Maurya

QCD corrections to H > e+ e- \mu+ \mu-

Speaker
Mandeep Kaur

Medium modification of dijets at LHC energies

Speaker
Mr Vipul Pant

Probing Non-classicality of Primordial Gravitational Waves and Magnetic Field Through Quantum Poincare Sphere

Speaker
Sourav Pal

Phases of complex SYK from Euclidean wormholes

Speaker
Mr Hemant Rathi

Search for Wrong-Sign D^{0}->K^{+}π^{−}π^{0} decay at Belle II.

Speaker
Ms Chanchal Sharma

Study on the neutrino masses and mixings, baryogenesis and effects of keV-scale sterile neutrino as dark matter

Speaker
Soram Robertson Singh

Background study in $\bar\nu_\mu-A$ DIS scattering in MINERνA Experiment

Speaker
Sayeed Akhter

Theoretical Studies on $d(\vec \gamma , \vec p)n$ at Astrophysical Energies

Speaker
Kusuma M

Eta meson couplings with low-lying nucleon resonances

Speaker
Janardan Singh

Probing the effect of hadron cascade-time on particle production and elliptic flow(v_{2}) in Xe+Xe collisions at $\sqrt{s_{\rm{NN}}}$ = 5.44 TeV using AMPT model

Speaker
Girija Sankar Pradhan

Magnetic reconnection in cosmic string wakes

Speaker
Mr DILIP KUMAR

Identified hadron production at mid-rapidity in Au+Au collisions at $ \sqrt{s_{NN}}$ = 54.4 GeV at STAR

Speaker
Mr Krishan Gopal

Probing high scale seesaw and PBH generated dark matter via gravitational waves with multiple tilts

Speaker
Suruj Jyoti Das

Two-particle femtoscopic correlation measurements of K^{0}_{S} and $ \Lambda/\bar{\Lambda}$ particles in PbPb collisions with CMS detector

Speaker
Raghunath Pradhan

Horizon degree of freedon induced from bulk

Speaker
Ayan Chatterjee

Develop and study the Bakelite RPCs using linseed oil coating

Speaker
Dr Raveendrababu Karnam

Characterization of proto-type silicon sensor for CMS detector

Speaker
Anusree Vijay

Jet and missing transverse energy performance at CMS High Level Trigger

Speaker
Mr Diwakar Vats

15:00