XXIV DAE-BRNS high energy physics symposium December 14 - 18, 2020

Virtual Conference

National Institute of Science Education and Research Jatni Odisha 752050 India

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PLENARY-INAUGURAL

TOPIC: INAUGURAL SESSION **TIME:** 10:25 TO 11:30 (IST) **ZOOM: DAE-HEP-room1**

SL	Тіме	SPEAKER AND TITLE	
No.			
1.	10:25 to 10:30	Sanjay Swain	
		Introductory remarks on the symposium	
2.	10:30 to 10:35	Sudhakar Panda	
		Director, National Institute of Science Education and Research, India	
		Inauguration	
3.	10:35 to 10:55	Naba K. Mondal	
		Raja Ramanna fellow, Saha Institute of Nuclear Physics	
		Former spokesperson, India-based Neutrino Observatory	
		Building Mega Science high energy physics experiments in India: Pos-	
		sibilities, Challenges and Path forward	
4.	10:55 to 11:10	Bedangadas Mohanty	
		Short video on the scientific programme of the symposium	

PLENARY

TOPIC: VIEWS ON MEGA AND MULTI-COUNTRY SCIENCE

PROJECTS IN HIGH ENERGY PHYSICS

TIME: 17:00 TO 17:45 (IST)

ZOOM: DAE-HEP-room1



K. Vijay Raghavan Principal Scientific Adviser, Government of India

Views on mega and multi-country science projects in high energy physics

PLENARY-I CHAIR/Host: Tarun Souradeep

TOPIC: PARTICLE ASTROPHYSICS AND COSMOLOGY

Тіме : 18:00 то 20:00 (IST) ZOOM : DAE-HEP-room1

Pasquale Serpico A personal overview of indir

1.

A personal overview of indirect dark matter searches: Status and challenge 18:00 to 18:40 (IST) 13:30 to 14:10 (CET)

07:30 to 08:10 (EST)

2.

3.

Luciano Rezzolla

The first image of a black hole

18:40 to 19:20 (IST) 14:10 to 14:50 (CET) 08:10 to 08:50 (EST)



James Lattimer

Measurements of Neutron Stars and the Dense Matter EOS

19:20 to 20:00 (IST) 14:50 to 15:30 (CET) 08:50 to 09:30 (EST)

PLENARY-II **CHAIR/HOST: Sourendu Gupta**

Topic: Relativistic heavy-ion physics and QCD

TIME: 18:00 TO 20:00 (IST) **ZOOM: DAE-HEP-room1**

Sayantan Sharma

1.

2.

Recent theoretical developments on QCD matter at finite temperature and density

18:00 to 18:40 (IST) 13:30 to 14:10 (CET)

07:30 to 08:10 (EST)

Andrea Dainese Recent results from the LHC heavy-ion programme

18:40 to 19:20 (IST) 14:10 to 14:50 (CET) 08:10 to 08:50 (EST)

Helen Caines



Latest results from heavy-ion collisions at RHIC

19:20 to 20:00 (IST) 14:50 to 15:30 (CET) 08:50 to 09:30 (EST)

PLENARY-III CHAIR/HOST: Archana Sharma

TOPIC: DETECTOR DEVELOPMENT AND

SOCIETAL APPLICATIONS

TIME: 14:00 TO 16:00 (IST)

ZOOM: DAE-HEP-room1

Anthony Butler

MARS: From the Higgs Boson to molecular radiology

14:00 to 14:40 (IST) 21:30 to 22:10 (NZDT) 09:30 to 10:10 (CET)

Juan Gomez Cadenas

Xenon TPCs for rare searches

14:40 to 15:20 (IST) 22:10 to 22:50 (NZDT) 10:10 to 10:50 (CET)

Heinz Pernegger

Recent developments in silicon and diamond detectors

15:20 to 16:00 (IST) 22:50 to 23:30 (NZDT) 10:50 to 11:30 (CET)







PLENARY-E-I CHAIR/Host: Saumen Datta

Topic: Pushan Majumdar memorial session

TIME : 17:30 TO 18:30 (IST) **ZOOM** : **DAE-HEP-room1**



N. D. Hari Dass

Pushing the frontiers of the QCD-String

17:30 to 17:50 (IST) 13:00 to 13:20 (CET)



Christian Lang

Dynamical Quarks - Pushan Majumdar in Graz (2003-2005)

17:50 to 18:10 (IST) 13:20 to 13:40 (CET)



Sourendu Gupta

Pushan Majumdar in Kolkata

18:10 to 18:30 (IST) 13:40 to 14:00 (CET)

PLENARY-IV

CHAIR/Host: Amol Dighe

TOPIC: NEUTRINO PHYSICS **TIME:** 20:00 TO 22:00 (IST) **ZOOM:** DAE-HEP-room1

Kaladi S Babu



Theoretical status of neutrino physics

20:00 to 20:40 (IST) 08:30 to 09:10 (CST) 06:30 to 07:10 (PST) 15:30 to 16:10 (CET)

Hirohisa Tanaka



Recent experimental developments in neutrino physics

20:40 to 21:20 (IST) 09:10 to 09:50 (CST) 07:10 to 07:50 (PST) 16:10 to 16:50 (CET)

Sandhya Choubey



Future prospects in neutrino physics

21:20 to 22:00 (IST) 09:50 to 10:30 (CST) 07:50 to 08:30 (PST) 16:50 to 17:30 (CET)

PLENARY-E-II Co-ordinator: Bedangadas Mohanty

TOPIC: GENERAL BODY MEETING

TIME: 14:30 TO 16:00 (IST) **ZOOM**: **DAE-HEP-room1**

SL	Тіме	SPEAKER AND TITLE	
No.			
1.	14:30 to 14:45	Bedangadas Mohanty	
		About the XXIV DAE-BRNS high energy physics symposium - Statis-	
		tics and status	
2.	14:45 to 15:05	Comments and feedback on the symposium	
3.	15:05 to 15:20	Praveer Asthana	
		from office of Principal Scientific Advisor, Government of India	
		Mega science vision 2035 - Exercise	
4.	15:20 to 15:50	Presentations for holding the next symposium and discussions + online	
		voting	

PLENARY-E-III Moderators: Shrubabati Goswami

Moon Moon Devi

Topic: Exploring pathways for achieving gender

PARITY IN HIGH ENERGY PHYSICS IN INDIA

TIME: 16:00 TO 18:00 (IST)

SL	Тіме	SPEAKER AND TITLE	
No.			
1.	16:00 to 16:10	Srubabati Goswami	
		Introduction	
		Guest speakers	
1.	16:10 to 16:15	Rohini Godbole	
		Why do you need a gender equity group?	
2.	16:15 to 16:20	Preeti Kharb	
		The gender equity group in Astrophysics	
3.	16:20 to 16:25	Bindu Bambah	
		The Hyderabad Charter	
4.	16:25 to 16:30	Ajit Srivastava	
		Changes needed at the decision making and personal level	
5.	16:30 to 16:35	Anju Bhasin	
		Experiences as a High Energy Experimentalist	
Panel discussion			
1.	16:35 to 16:40	Ramadevi	
		The string theory landscape	
2.	16:40 to 16:45	Natasha Sharma	
		Challenges faced by a Young Physicist	
3.	16:45 to 16:50	R. Rangarajan	
		Institutional responsibility to be fair and supportive	
4.	16:50 to 16:55	D. Indumathi	
-		Psychosocial issues and gender equity in HEP	

PLENARY-V CHAIR/Host: Brajesh Choudhary

TOPIC: STANDARD MODEL AND BEYOND STANDARD MODEL

TIME : 18:30 TO 20:30 (IST) **ZOOM** : **DAE-HEP-room1**

Valerie Gibson

Status of flavour physics

18:30 to 19:10 (IST) 13:00 to 13:40 (GMT) 14:00 to 14:40 (CET)

08:00 to 08:40 (EST)

Christophe Grojean

Beyond standard model theory

19:10 to 19:50 (IST) 13:40 to 14:20 (GMT) 14:40 to 15:20 (CET)

08:40 to 09:20 (EST)

Greg Landsberg

2020: Highlights from ATLAS and CMS

19:50 to 20:30 (IST) 14:20 to 15:00 (GMT) 15:20 to 16:00 (CET) 09:20 to 10:00 (EST)







PLENARY-VI CHAIR/Host: Sunil Mukhi

TOPIC: FORMAL THEORY

TIME : 09:30 TO 11:30 (IST) **ZOOM** : **DAE-HEP-room1**



Gautam Mandal

Bulk entanglement entropy/Quantum quenches 09:30 to 10:10 (IST)



Alok Laddha

Geometry of Scattering Amplitudes
10:10 to 10:50 (IST)



Arpan Bhattacharyya

Circuit Complexity and (some of) its application 10:50 to 11:30 (IST)

PLENARY-RBA Co-ordinator: Bedangadas Mohanty

TOPIC: RAHUL BASU MEMORIAL THESIS AWARD

TIME: 14:30 TO 16:30 (IST) **ZOOM**: **DAE-HEP-room1**

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:30 to 14:50	Chandrodoy Chattopadhyay
		Entropy production and thermal fluctuations in higher-order dissipa-
		tive hydrodynamics
2.	14:50 to 15:10	Manibrata Sen
		New aspects of supernova neutrino flavour conversions: In the stan-
		dard model and beyond
3.	15:10 to 15:30	Rafiqul Rahaman
		Study of anomalous gauge boson self-couplings and the role of spin-1
		polarizations
4.	15:30 to 15:50	Resmi P K
		Measurement of the CKM angle φ_3 from $B^{\pm} \to D(K_S^0 \pi^+ \pi^- \pi^0) K^{\pm}$
		decays and future prospects
5.	15:50 to 16:10	Suman Chatterjee
		Jets as probes for precision measurements and candles for physics be-
		yond standard model

PLENARY-VII CHAIR/Host: Ramesh Narayan

TOPIC: FUTURE FACILITIES **TIME:** 16:40 TO 19:20 (IST) **ZOOM:** DAE-HEP-room1

Philip Diamond

The Square Kilometre Array: a physics machine for the 21st Century

16:40 to 17:20 (IST)	06:10 to 06:50 (EST)
11:10 to 11:50 (GMT)	13:10 to 13:50 (IST - Israel)
12:10 to 12:50 (CET)	

Sheperd S Doeleman

The next-generation Event Horizon Telescope: new approaches to black hole imaging

17:20 to 18:00 (IST)	06:50 to 07:30 (EST)
11:50 to 12:30 (GMT)	13:50 to 14:30 (IST - Israel)
12:50 to 13:30 (CET)	

Abhay Deshpande

Electron Ion Collider: Science, Status and Invitation for Collaboration

18:00 to 18:40 (IST)	07:30 to 08:10 (EST)
12:30 to 13:10 (GMT)	14:30 to 15:10 (IST - Israel)
13:30 to 14:10 (CET)	

Halina Abramowicz

Future collider projects - the European perspective

18:40 to 19:20 (IST)	08:10 to 08:50 (EST)
13:10 to 13:50 (GMT)	15:10 to 15:50 (IST - Israel)
14:10 to 14:50 (CET)	



2.





PLENARY-CLOSING

TOPIC: CLOSING CEREMONY **TIME:** 19:20 TO 19:40 (IST) **ZOOM: DAE-HEP-room1**

SL	Тіме	SPEAKER AND TITLE
No.		
1.	19:20 to 19:25	Announcement of the XXV DAE-BRNS high energy physics
		symposium 2022
2.	19:25 to 19:40	Bedangadas Mohanty
		Vote of thanks

Mini-review and parallel talks

PARALLEL-I - 11:30 to 13:00 (IST)

Standard model and beyond standard model physics - IA

TIME: 11:30 TO 13:00 (IST) CHAIR/Host: Pankaj Agrawal

ZOOM: DAE-HEP-room2

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:30 to 12:00	Arun M. Thalapillil [MINI-REVIEW]
		Jets and jet substructure
2.	12:00 to 12:15	Akanksha Bhardwaj
		Jet substructure techniques to search for SUSY with gravitino LSP
3.	12:15 to 12:30	Saikat Karmakar
		Search for new physics with delayed jets in CMS
4.	12:30 to 12:45	Meena Meena
		Study for vector bosons production in association with heavy-flavor
		jets in proton-proton collisions
5.	12:45 to 13:00	Suman Kumar Kundu
		Investigating the parton shower model in PYTHIA8 with pp collision
		data at $\sqrt{s} = 13 \text{ TeV}$

Standard model and beyond standard model physics - IB

TIME: 11:30 TO 13:00 (IST) CHAIR/Host: Kirtiman Ghosh

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:30 to 11:45	Praveen Chandra Tiwari
		Search for dark matter produced in association with bottom quarks at
		13 TeV with CMS detector
2.	11:30 to 11:45	Bisnupriya Sahu
		Search for dark matter with a Leptoquark and Missing transverse en-
		ergy in the final state by using proton-proton collision data of CMS
		detector at LHC at 13 TeV

3.	12:00 to 12:15	Deepak Kumar
		Search for dark matter produced in association with a Higgs boson
		decaying to a pair of bottom quarks
4.	12:15 to 12:30	Avik Paul
		Gravitational Wave Signatures from First-order Phase transitions in
		an Extended Inert Doublet Dark Matter Model
5.	12:30 to 12:45	Shiuli Chatterjee
		Naturally freezing-in dark leptons
6.	12:45 to 13:00	Arnab Roy
		Light Singlino Dark Matter at the LHC

Detectors development, future facilities and experiments, and societal applications - I

TIME: 11:30 to 13:00 (IST) CHAIR/Host: Supratik Mukhopadhyay

ZOOM: DAE-HEP-room3

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:30 to 12:00	Md. Naimuddin [MINI-REVIEW]
		GEM Detectors - Development, application and current status of In-
		dian efforts
2.	12:00 to 12:15	Promita Roy
		Experimental and numerical studies of charging up in THGEMs
3.	12:15 to 12:30	Rupamoy Bhattacharyya
		Gain uniformity of a quad-GEM detector
4.	12:30 to 12:45	Sunil Kumar
		Sensitivity of Triple-GEM Detector for background radiation in CMS
		Experiment
5.	12:45 to 13:00	Kanishka Rawat
		A Simulation Study of Primary Ionization for Different Gas Mixtures
		using Gas Electron Multiplier

Relativistic heavy-ion physics & QCD - I

TIME: 11:30 to 12:45 (IST) CHAIR/Host: Sadhana Dash

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:30 to 12:00	Nihar Ranjan Sahoo [MINI-REVIEW]
		Recent RHIC and LHC measurement on jets and heavy-flavors
2.	12:00 to 12:15	Md. Samsul Islam
		Study of Heavy flavor decay muons in p-p and Pb-Pb collisions at LHC
		energies using Angantyr model for heavy-ion collisions in PYTHIA8
3.	12:15 to 12:30	Baidyanath Sahoo
		Simulation studies of $R_2(\Delta \eta, \Delta \varphi)$ and $P_2(\Delta \eta, \Delta \varphi)$ correlation func-
		tions in pp collisions with the PYTHIA and HERWIG models1em

4.	12:30 to 12:45	Rathijit Biswas
		Deciphering quark and gluon jet modifications in heavy-ion collisions with γ -tagged jets

Cosmology and astro-particle physics - I

TIME: 11:30 to 13:00 (IST)

CHAIR/Host: Tuhin Ghosh

ZOOM: DAE-HEP-room5

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:30 to 12:00	Rishi Khatri [MINI-REVIEW]
		Fundamental physics with CMB: LCDM anomalies, new particles, and
		primordial black holes
2.	12:00 to 12:15	Srikanta Panda
		Parity in Planck full-mission CMB
3.	12:15 to 12:30	Vipin Sudevan
		A Gibbs ILC Algorithm to Estimate CMB Posterior over Large Angular
		Scales of the Sky
4.	12:30 to 12:45	Pramoda Kumar Samal
		Testing statistical isotropy in cosmic microwave background polariza-
		tion maps
5.	12:45 to 13:00	Mayukh R Gangopadhyay
		Non-thermal Hot Dark Matter from Inflaton/ Moduli Decay

PARALLEL-II - 14:00 to 15:30 (IST)

Standard model and beyond standard model physics - IIA

TIME: 14:00 to 15:30 (IST)

CHAIR/Host: Seema Sharma

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:00 to 14:30	Bhawna Gomber [MINI-REVIEW]
		The experimental overview: SUSY
2.	14:30 to 14:45	Tribeni Mishra
		SUSY search with jets and large MET final state at CMS
3.	14:45 to 15:00	Angira Rastogi
		Probing BSM Physics with multileptons at CMS
4.	15:00 to 15:15	Ayan Mukhopadhyay
		Resummed transverse momentum distribution of pseudo-scalar Higgs
		boson at $NNLO_A + NNLL$
5.	15:15 to 15:30	Ashish Sharma
		Search for a b* decaying to tW

Standard model and beyond standard model physics - IIB

TIME: 14:00 to 15:30 (IST)

CHAIR/Host: Bipul Bhuyan

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:00 to 14:15	Chandiprasad Kar
		Recent measurement on $B \to \mu^+\mu^-$ properties by using CMS data
2.	14:15 to 14:30	Sagar Hazra
		A study of the $B^0 \to K_S^0 \pi^0$ decay at Belle II
3.	14:30 to 14:45	Debashis Sahoo
		Probing lepton-number and baryon-number violating tau decays at
		Belle
4.	14:45 to 15:00	Alibordi Muhammad
		Measurement of CP violating weak phase in mesonic pseudoscalar to
		vector-vector decay
5.	15:00 to 15:15	Subhashree Mohanty
		Indirectly probing new physics in charmless decays of $B o \phi \phi K$
6.	15:15 to 15:30	Aishwarya Bhatta
		Model independent analysis of $B \to K_1 l^+ l^-$ decay processes

Detectors development, future facilities and experiments, and societal applications - II

TIME: 14:00 to 15:30 (IST)

CHAIR/Host: Bhartendu Singh

ZOOM: DAE-HEP-room3

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:00 to 14:30	Prakhar Garg [MINI-REVIEW]
		MPGD based tracking and PID detectors
2.	14:30 to 14:45	Manisha Lohan
		The Micromegas detectors for ATLAS New Small Wheel upgrade
3.	14:45 to 15:00	Prasanta Kumar Rout
		A Study of Avalanche and Streamer Simulation in GEM detector using
		hydrodynamic approach
4.	15:00 to 15:15	Pethuraj Sankaranarayanan
		Improvement of time and position resolutions of RPC detectors using
		Time-over-Threshold information
5.	15:15 to 15:30	Mamta Jangra
		Characterisation of Hamamatsu SiPM for cosmic muon veto detector
		at IICHEP

Relativistic heavy-ion physics & QCD - II

TIME: 14:00 to 15:30 (IST)

CHAIR/Host: Tapan Kumar Nayak

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:00 to 14:30	Natasha Sharma [MINI-REVIEW]
		Recent measurements of (anti-)Nuclei production in high energy col-
		lisions
2.	14:30 to 14:45	Pooja Pareek
		Light neutral mesons measurement with the ALICE experiment at the
		LHC
3.	14:45 to 15:00	Mohammad Asif Bhat
		Measurements of inclusive photon production at forward rapidities us-
		ing PMD in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with ALICE
4.	15:00 to 15:15	Ruchi Chudasama
		Observation of light-by-light scattering and search for axion-like par-
		ticles with CMS experiment
5.	15:15 to 15:30	Rohit Gupta
		A unified formalism to study soft as well as the hard part of the trans-
		verse momentum spectra

Formal Theory - I

TIME: 14:00 to 15:30 (IST) CHAIR/Host: Anshuman Maharana

SL	Тіме	SPEAKER AND TITLE
No.		
1.	14:00 to 14:30	Ashoke Sen [MINI-REVIEW]
		Soft theorems
2.	14:30 to 14:45	Ratul Mahanta
		Analyticity of Off-shell Green's Functions in Superstring Field Theory
3.	14:45 to 15:00	Sukanta Bhattacharyya
		Generalized uncertainty principle in resonant detectors of gravita-
		tional waves
4.	15:00 to 15:15	Sunandan Gangopadhyay
		Cosmology of Bianchi type-I metric using renormalization group ap-
		proach for quantum gravity
5.	15:15 to 15:30	Suresh C. Jaryal
		Formation of marginally trapped surface in gravitational collapse

PARALLEL-III - 09:30 to 11:00 (IST)

Standard model and beyond standard model physics - IIIA

TIME: 09:30 to 11:00 (IST)

CHAIR/Host: Sanjay Kumar Swain

ZOOM: DAE-HEP-room2

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Kajari Mazumdar [MINI-REVIEW]
		Status of precision electroweak measurements
2.	10:00 to 10:15	Harjot Kaur
		Search for compressed mass spectrum SUSY via electroweak VBF in
		single lepton final states using LHC Run II data collected with CMS
		detector at $\sqrt{s} = 13TeV$
3.	10:15 to 10:30	Geetanjali Chaudhary
		aQGC studies for WZ in the pp collisions using EFT framework at the
		LHC
4.	10:30 to 10:45	Debarati Roy
		Latest measurements of boosted top quark in CMS
5.	10:45 to 11:00	Piyali Banerjee
		Domain wall and CP violation in left right supersymmetry and its
		implications for leptogenesis and electron EDM

Standard model and beyond standard model physics - IIIB

TIME: 09:30 to 11:00 (IST) CHAIR/Host: Sudhansu Sekhar Biswal

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Ratan Sarkar
		Unveiling Regions in multi-scale Feynman Integrals using Singulari-
		ties and Power Geometry
2.	09:45 to 10:00	Nikhila
		Exploring the Possibility of Right Angled Unitarity Triangle

3.	10:00 to 10:15	Ritu Aggarwal
		A new distribution for the charged particle multiplicities in DIS at
		HERA and hadron-hadron collisions at the LHC.
4.	10:15 to 10:30	Sourav Pal
		Multiparton webs beyond three loops
5.	10:30 to 10:45	Ajjath A H
		Next to soft corrections to Differential rapidity distributions at the
		hadronic colliders
6.	10:45 to 11:00	Lopamudra Sahoo
		Role of polarization in probing chiral structure of heavy gauge bosons
		at an e ⁺ e ⁻ collider

Cosmology and astro-particle physics - II

TIME: 09:30 to 11:00 (IST)

CHAIR/Host: Girish Kulkarni

ZOOM: DAE-HEP-room5

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Anupam Ray [MINI-REVIEW]
		Probing Ultralight Primordial Black Holes as a Dark Matter Candidate
2.	10:00 to 10:15	Sukannya Bhattacharya
		Primordial black holes and particle dark matter from early matter
		domination
3.	10:15 to 10:30	Somnath Mukhopadhyay
		I-Eccentricity-Q relation as the universal relation for rotating magne-
		tized white dwarfs
4.	10:30 to 10:45	Vivek Baruah Thapa
		Dense matter equation of state in strong magnetic eld model with
		density-dependent parameterization
5.	10:45 to 11:00	Suruj Jyoti Das
		Cosmic Inflation in Minimal $U(1)_{B-L}$ Model: Implications for (Non)
		Thermal Dark Matter and Leptogenesis

Detectors development, future facilities and experiments, and societal applications - III

TIME: 09:30 TO 11:00 (IST) CHAIR/Host: Satyaki Bhattacharyya

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Greyson Nikolai Newton
		Track-Based Muon System Alignment at CMS
2.	09:45 to 10:00	Soumya Mukherjee
		Mitigation of anomalous missing transverse momentum measure-
		ments in CMS experiment at the LHC Run2

3.	10:00 to 10:15	Shubham Pandey
		Performance of CMS High Granularity Calorimeter prototype to
		charged pions in beam test experiments
4.	10:15 to 10:30	Ashim Roy
		Performance of electrons and photons in run 2 and prospects for run 3
		with the CMS detector
5.	10:30 to 10:45	Amandeep Kaur
		Study of Radiation Damage in the CMS Hadron Calorimeter using
		Isolated Muons from 2018 Collision Data
6.	10:45 to 11:00	Debabrata Bhowmik
		Performance of CMS High Granularity Calorimeter prototype to
		positrons in beam test

Relativistic heavy-ion physics & QCD - III

TIME: 09:30 to 11:00 (IST)

CHAIR/Host: Ranbir Singh

ZOOM: DAE-HEP-room1

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Sourav Kundu [MINI-REVIEW]
		Latest results on light flavour Hadron production at LHC and RHIC
2.	10:00 to 10:15	Dukhishyam Mallick
		Latest results on hadronic resonance production with ALICE at the
		LHC
3.	10:15 to 10:30	Sandeep Dudi
		Strangeness and rapidity dependent studies in small system with AL-
		ICE at the LHC
4.	10:30 to 10:45	Sushanta Tripathy
		Topological studies of charged particle production and search for jet
		quenching effects in small collision systems with ALICE
5.	10:45 to 11:00	Dushmanta Sahu
		Multiplicity dependence study of thermodynamic and transport prop-
		erties of the matter formed in ultra-relativistic collisions at LHC using
		Color String Percolation Model

PARALLEL-IV - 11:15 to 12:45 (IST)

Standard model and beyond standard model physics - IVA

TIME: 11:15 to 12:45 (IST)

CHAIR/HOST: Gagan B Mohanty

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Alessandro Gaz [MINI-REVIEW]
		The Belle-II experiment and first physics results

2.	11:45 to 12:00	Chanchal Sharma
		Rediscovery of "wrong sign" $D^0 \to K^+\pi^-\pi^0$ decay with Belle II
3.	12:00 to 12:15	Sourav Patra
		Search for lepton flavor violation in bottomonium decays
4.	12:15 to 12:30	Rashmi Dhamija
		Search for the New Physics in bottomonium decays in Belle and Belle
5.	12:30 to 12:45	Niharika Rout
		Determination of CKM angle ϕ_3 at Belle and Belle II

Standard model and beyond standard model physics - IVB

TIME: 11:15 TO 12:45 (IST)

CHAIR/HOST: Ujjal Dey

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Abhaya Kumar Swain
		M_{T2} as a probe of CP phase in $h \rightarrow \tau \tau$ at the LHC
2.	11:30 to 11:45	Kaur Sandeep
		EFT validity issues in aQGC analysis of same sign WW Vector Boson
		Scattering processes
3.	11:45 to 12:00	A Dey
		LHC signals of triplet scalars as dark matter portal: cut-based ap-
		proach and improvement with gradient boosting and neural networks
4.	12:00 to 12:15	Vandana Sahdev
		Dark Matter, Muon Anomalous Magnetic Moment and the XENON1T
		Excess
5.	12:15 to 12:30	Lopamudra Nayak
		Search for Lepton Flavour Violation in B decays
6.	12:30 to 12:45	Kundan Kumar Vishwakarma
		Estimation of low-energy constants for bottom mesons in heavy meson
		chiral perturbation theory

Detectors development, future facilities and experiments, and societal applications - IV

TIME: 11:15 to 12:45 (IST)

CHAIR/Host: Prafulla K Behera

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Satyanarayana Bheesette
		Cosmic Muon Veto for the mini-ICAL detector at IICHEP, Madurai
2.	11:30 to 11:45	Piyush Verma
		Mechanical design of Cosmic Muon veto detector around Mini-ICAL

3.	11:45 to 12:00	Honey Khindri
		Magnetic field simulations and measurements on mini-ICAL
4.	12:00 to 12:15	Abdul Basith K
		Charged hadron identification in Belle II silicon vertex detector
5.	12:15 to 12:30	Rahul Tiwary
		Lepton identification using Belle II Silicon-strip vertex detector (SVD)
6.	12:30 to 12:45	Souvik Maity
		Slow pion Tracking Efficiency Studies at Belle II detector

Relativistic heavy-ion physics & QCD - IV

TIME: 11:15 to 13:00 (IST)

CHAIR/Host: Najmul Haque

ZOOM: DAE-HEP-room1

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Victor Roy [MINI-REVIEW]
		Relativistic Magneto-hydrodynamics in heavy ion collisions
2.	11:45 to 12:00	Mahfuzur Rahaman
		Shear viscosities of a conformal fluid in the presence of strong external
		magnetic field
3.	12:00 to 12:15	Manu Kurian
		Thermal and electric charge transport in a weakly magnetized hot
		QCD medium
4.	12:15 to 12:30	Snigdha Ghosh
		Structure of magnetic field quantization in viscosity expression for rel-
		ativistic fluid
5.	12:30 to 12:45	Rajesh Biswas
		Causality and stability in relativistic non-resistive dissipative magne-
		tohydrodynamics
5.	12:45 to 13:00	Subhasis Samanta
		Quantum aspects of anisotropic conduction in Hadron Resonance Gas

Formal theory - II

TIME: 11:15 to 12:45 (IST)

CHAIR/HOST: Aninda Sinha

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Rajesh Gopakumar [MINI-REVIEW]
		Bootstrap
2.	11:45 to 12:00	Ahmadullah Zahed
		Crossing Symmetric Dispersion Relations in QFTs and CFT Mellin am-
		plitudes
3.	12:00 to 12:15	Parthiv Haldar
		Relative entropy in scattering and the S-matrix bootstrap

4.	12:15 to 12:30	Gustavo Petronilo
		Compactified Conformal Field Theories in Symplectic Manifolds
5.	12:30 to 12:45	Shreyansh Shankar Dave
		Effects of oscillating spacetime metric background on a complex scalar
		field and formation of topological vortices

PARALLEL-V - 09:30 to 11:00 (IST)

Standard model and beyond standard model physics - VA

TIME: 09:30 to 11:00 (IST)

CHAIR/HOST: James Libby

ZOOM: DAE-HEP-room2

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Rukmani Mohanta [MINI-REVIEW]
		Implications of recent Flavour anomalies on New Physics
2.	10:00 to 10:15	Aseem Vashisht
		Exploring the Structural Features of Quark Mass Matrices in the Flavor
		Basis
3.	10:15 to 10:30	Jai Deepak More
		Charged lepton flavour violating decays as signatures of A_4 symmetry
4.	10:30 to 10:45	Suchismita Sahoo
		Flavor anomalies and radiative neutrino mass with vector leptoquark
5.	10:45 to 11:00	Seema Choudhury
		Recent results of lepton flavor universality in B decays at Belle

Standard model and beyond standard model physics - VB

TIME: 09:30 to 11:00 (IST) CHAIR/HOST: Aruna K Nayak

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Amit Adhikary
		Higgs self-coupling at the HL-LHC and HE-LHC
2.	09:45 to 10:00	Soumya Mukherjee
		Measurement of Higgs self-coupling from non-resonant Higgs pair
		production and decay to bbyy final state in the CMS experiment
3.	10:00 to 10:15	Prafulla Saha
		Recent measurements of Higgs boson properties in the diphoton decay
		channel with the CMS detector

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4.	10:15 to 10:30	Lata Panwar
		Searches for non-resonant and resonant Higgs boson pair-production,
		decaying into bbyy final state, in the pp-collisions at $\sqrt{s} = 13$ TeV,
		using CMS Run2 data
5.	10:30 to 10:45	Vishal Singh Ngairangbam
		Improving bounds on invisible branching ratio of the Higgs with deep-
		learning

Cosmology and astro-particle physics - III

TIME: 09:30 to 11:00 (IST) Chair/Host: Raghavan Rangarajan

ZOOM: DAE-HEP-room5

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Subinoy Das [MINI-REVIEW]
		Dark matter theory: mini review
2.	10:00 to 10:15	Deepak Tiwari
		Hunting for dark matter in the galactic centre with INO
3.	10:15 to 10:30	Pradip K Sahu
		Effect of dark matter in compact realistic neutron stars
4.	10:30 to 10:45	Dibyendu Nanda
		Dirac Neutrino Portal Dark Matter
5.	10:45 to 11:00	Manoranjan Dutta
		Singlet-Doublet Majorana Dark Matter and Neutrino Mass in a min-
		imal Type-I Seesaw Scenario

Detectors development, future facilities and experiments, and societal applications - V

TIME: 09:30 to 11:00 (IST)

CHAIR/HOST: V K S Kashyap

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Vivek Singh[MINI-REVIEW]
		Cryogenics, detectors and sensors for High Energy Physics
2.	10:00 to 10:15	Vijay Iyer
		Large mass single electron resolution detector for dark matter and co-
		herent neutrino-nucleus elastic interaction searches
3.	10:15 to 10:30	Sunita Sahoo
		The exploratory run at 555m deep underground with WIMP sensitive
		detector
4.	10:30 to 10:45	Niraj Chaddha
		The Single Channel Data Acquisition (DAQ) Module Developed For
		Dark Matter Search Experiment Using Superheated Liquid

5.	10:45 to 11:00	Srinidhi Bheesette
		Simulation studies for electron gun based magnetic probe

Relativistic heavy-ion physics & QCD - V

TIME: 09:30 to 11:00 (IST) CHAIR/HOST: Md. Nasim

ZOOM: DAE-HEP-room1

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Prithwish Tribedy [MINI-REVIEW]
		Latest results on correlations and fluctuations (including collectivity)
2.	10:00 to 10:15	Kishora Nayak
		Directed flow of identified hadrons in Au+Au collisions with the STAR
		experiment at RHIC
3.	10:15 to 10:30	Prabhupada Dixit
		Azimuthal anisotropy measurement of ϕ mesons in Au+Au collisions
		$at \sqrt{s_{NN}} = 27$ and 54.4 GeV at STAR
4.	10:30 to 10:45	Md. Rihan Haque
		Constraining the Chiral Magnetic Effect with charge-dependent az-
		imuthal correlations in ALICE
5.	10:45 to 11:00	Prottay Das
		Search for the Chiral Magnetic Wave using the ALICE detector in Pb-
		Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$

PARALLEL-VI - 11:15 to 12:45 (IST)

Standard model and beyond standard model physics - VIA

TIME: 11:15 to 12:45 (IST)

CHAIR/Host: Seema Bahinipati

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Vishal Bharadwaj [MINI-REVIEW]
		Charm Physics
2.	11:45 to 12:00	Latika Aggarwal
		Rare charm decays at Belle II
3.	12:00 to 12:15	Anita Lavania
		$D^0 \to K_I^0 \pi^+ \pi^-$ amplitude model and a study of K_I^0 reconstruction at
		BESIII
4.	12:15 to 12:30	Haritha C P
		Analysis of semileptonic decays of some b- baryons within the SM
		and beyond
5.	12:30 to 12:45	Pooja Mukherjee
		On next to soft corrections to Inclusive cross sections at the colliders

Standard model and beyond standard model physics - VIB

TIME: 11:15 TO 12:45 (IST) CHAIR/Host: Diptimoy Ghosh

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Radhika Arvind Vinze
		Revisiting the Stuckelberg mechanism
2.	11:30 to 11:45	Siddharth Prasad Maharathy
		Interference Effect in LNV and LNC Meson Decays for Left Right Sym-
		metric Model
3.	11:45 to 12:00	Cyrin Neeraj
		LHC bounds on $R_{D(*)}$ motivated Leptoquark models
4.	12:00 to 12:15	Avnish
		Collider signatures of multi-charged fermions at the LHC in the frame-
		work of a radiative seesaw model
5.	12:15 to 12:30	Arunima Bhattacharya
		Two loop QCD amplitudes for di-pseudo scalar production in gluon
		fusion
6.	12:30 to 12:45	Lopamudra Mukherjee
		Study of Flavour Constraints on Dark Matter Models

Cosmology and astro-particle physics - IV

TIME: 11:15 to 12:45 (IST)

CHAIR/Host: Pravata K Mohanty

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Fahim Varsi
		Latest results of cosmic ray energy spectrum and composition mea-
		surements from GRAPES-3 experiment
2.	11:30 to 11:45	Girija Sankar Pradhan
		Investigation of muon puzzle with GRAPES-3 experiment
3.	11:45 to 12:00	Hari Haran Balakrishnan
		A detailed investigation of thunderstorm events recorded in GRAPES-3
		experiment
4.	12:00 to 12:15	Samir Banik
		Simulation of cosmogenic neutron backgrounds for a dark matter
		search experiment at Jaduguda Underground Science Laboratory
5.	12:15 to 12:30	Ronald Scaria
		Investigation of K/π ratio with accelerator and cosmic ray data
6.	12:30 to 12:45	Suryanarayan Mondal
		Cosmic muon momentum spectra at Madurai

Relativistic heavy-ion physics & QCD - VI

TIME: 11:15 to 13:00 (IST) Chair/Host: Lokesh Kumar

ZOOM: DAE-HEP-room1

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Ashish Pandav
		Measurement of cumulants of net-charge and net-kaon distributions
		in Au+Au collisions at $\sqrt{s_{NN}} = 27$ GeV from the STAR experiment at
		RHIC
2.	11:30 to 11:45	Guruprasad Prakash Kadam
		Criticality in hadron resonance gas model: Critical exponents and
		transport properties
3.	11:45 to 12:00	Maneesha Sushama Pradeep
		QCD critical point, universality and small quark mass
4.	12:00 to 12:15	Bushra Ali
		Energy and Pseudorapidity Dependence of Multiplicity and Mean p_T
		Fluctuations in Ion-Ion Collisions at FAIR Energies
5.	12:15 to 12:30	Bithika Karmakar
		Anisotropic pressure and quark number susceptibility of strongly mag-
		netized QCD medium
6.	12:30 to 12:45	Abhisek Saha
		Temperature fluctuations and Tsallis statistics in Relativistic Heavy
		Ion collisions
7.	12:45 to 13:00	Pritam Chakraborty
		Understanding long-range near-side ridge correlations in p-p colli-
		sions using rope hadronization at LHC energies

Neutrino physics - I

TIME: 11:15 TO 12:30 (IST)

CHAIR/HOST: Tanumoy Mandal

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Reetanjali Moharana [MINI-REVIEW]
		Neutrino astrophysics in mulit-messenger era
2.	11:45 to 12:00	Sudipta Das
		Evolution of Mass-Mixing Parameters in Matter with Neutrino Non-
		Standard Interactions
3.	12:00 to 12:15	Jogesh Rout
		Impact of high energy beam tunes on the sensitivities to the standard
		unknowns at DUNE
4.	12:15 to 12:30	Mehedi Masud
		Probing the second oscillation maximum at DUNE

PARALLEL-VII - 09:30 to 11:00 (IST)

Cosmology and astro-particle physics - V

TIME: 09:30 to 11:00 (IST) CHAIR/HOST: N Khandai

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 10:00	Tirthankar Roychoudhury [MINI-REVIEW]
		Cosmology and high-redshift universe with the redshifted 21 cm line
2.	10:00 to 10:15	Jyatsnasree Bora
		Gravitational wave echoes from strange stars for various equations of
		state
3.	10:15 to 10:30	Joseph P P J
		Cosmological perturbations in the interacting dark sector: Mapping
		fields and fluids
4.	10:30 to 10:45	Anish Ghoshal
		UV Completion & PQ Phase Transitions with Gravitational Waves
5.	10:45 to 11:00	Ashu Kushwaha
-		Helical magnetic fields from Riemann coupling

Detectors development, future facilities and experiments, and societal applications - VI

TIME: 09:30 TO 11:00 (IST) Chair/Host: Kirti Ranjan

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Alpana Alpana
		Handling large data volumes of CMS High Granularity Calorimeter
2.	09:45 to 10:00	Aravind T S
		Heterogeneous Computing with GPUs for trigger decision in CMS Ex-
		periment at the LHC
3.	10:00 to 10:15	Brij Kishor Jashal
		Evolution of LHC computing grid for Run-III and beyond with empha-
		sis on TIFR CMS Tier-II and Indian contribution

4.	10:15 to 10:30	Mandakini Ravindra Patil
		CMS L1 Trigger Upgrade Hardware
5.	10:30 to 10:45	Rajdeep M Chatterjee
		The upgrade of the CMS electromagnetic calorimeter: future prospects
		for precision timing and energy measurements at the High Luminosity
		LHC
6.	10:45 to 11:00	Sandeep Bhowmik
		Overview of the HL-LHC Upgrade for the CMS Level-1 Trigger

Relativistic heavy-ion physics & QCD - VII

TIME: 09:30 to 11:00 (IST)

CHAIR/Host: Hiranmaya Mishra

ZOOM: DAE-HEP-room1

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Arpan Das
		Correspondence between Israel-Stewart and first-order casual and sta-
		ble hydrodynamics for the boost-invariant flow.
2.	09:45 to 10:00	Ashutosh Dash
		Far from equilibrium hydrodynamic attractor for an azimuthally
		symmetric system
3.	10:00 to 10:15	Avdhesh Kumar
		Spin dynamics in relaxation time approximation
4.	10:15 to 10:30	Priyanka Priyadarshini Pruseth
		Kasner space-time, second order hydrodynamics and gravity dual
5.	10:30 to 10:45	Ankita Budhraja
		NLL resummation of recoil-sensitive angularities using SCET
6.	10:45 to 11:00	Srijit Paul
		Calculating meson and baryon resonances from lattice QCD

Neutrino Physics - II

TIME: 09:30 to 11:00 (IST) Chair/Host: Md. Sajjad Athar

SL	Тіме	SPEAKER AND TITLE
No.		
1.	09:30 to 09:45	Samiran Roy
		Understanding the MiniBooNE and the muon $g - 2$ anomalies with a
		light Z' and a second Higgs doublet
2.	09:45 to 10:00	Mainak Chakraborty
		Baryogenesis through leptogenesis in a S_4 flavon model with TM_1 mix-
		ing for neutrinos
3.	10:00 to 10:15	Soumya Bhattacharyya
		Theory of fast flavor conversion for supernova neutrinos

4.	10:15 to 10:30	Nishat Fiza
		Exploring the new physics phases in 3 + 1 scenario in neutrino oscil-
		lation experiments
5.	10:30 to 10:45	Pritam Das
		Multi-Higgs doublet model under the framework of minimal extended
		seesaw
6.	10:45 to 11:00	Maibam Ricky Devi
		Discriminating Type-II, Inverse and Linear seesaw mechanisms within
		A ₄ Flavour Symmetry

PARALLEL-VIII - 11:15 to 12:45 (IST)

Standard model and beyond standard model physics - VIIA

TIME: 11:15 to 13:00 (IST)

Chair/Host: Prolay Mal

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Aloke Kumar Das
		Measurement of cross section of $pp \rightarrow t\bar{t} + \gamma processin$ in lepton+jets
		events at $\sqrt{s} = 13$ TeV in LHC Run 2
2.	11:30 to 11:45	Mintu Kumar
		Precise measurement of the top quark mass with single top events at
		$CMS \ at \ \sqrt{s} = 13 \ TeV$
3.	11:45 to 12:00	Pritam Kalbhor
		Angular analysis of the decay $B^+ \to K^{*+} \mu^+ \mu^-$ in proton-proton colli-
		sions at $\sqrt{s} = 8 \text{ TeV}$
4.	12:00 to 12:15	Ipsita Ray
		New physics in $b \rightarrow sll$ decays with complex Wilson coefficients
5.	12:15 to 12:30	Soumen Halder
		Rediscovery of $B^+ \to K^+ l^+ l^-$ at Belle II
6.	12:30 to 12:45	Agnivo Sarkar
		Aspects of Charged Higgs Boson in the 2HDM Doppelganger
7.	12:45 to 13:00	Rojalin Pradhan
		Probing Doubly and Singly Charged Higgs at pp Collider HE-LHC

Cosmology and astro-particle physics - VI

TIME: 11:15 TO 12:45 (IST) Chair/Host: Ajit Srivastava

ZOOM: DAE-HEP-room4

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Sundar Dhara
		To study the Short Gamma-ray bursts(SGRBs) and evolutions of their
		energy flux and luminosity andInvestigations of Ultra Long Short
		GRBs (ulSGRBs)
2.	11:30 to 11:45	Divya Sachdeva
		Constraints on Axion like particles-Lepton coupling from Big Bang
		Nucleosynthesis
3.	11:45 to 12:00	Kausik Pal
		Neutrino emissivity of dense quark matter in presence of magnetic
		field
4.	12:00 to 12:15	Satyabrata Datta
		Importance of flavour effects in right handed neutrino induced gravi-
		tational leptogenesis
5.	12:15 to 12:30	Devabrat Mahanta
		Common origin of Dark Matter and Low Scale Leptogenesis from Three
		Body Decay at Tree Level
6.	12:30 to 12:45	Abhijit Kumar Saha
		Soft leptogenesis in the NMSSM with a singlet right-handed neutrino
		superfield

Relativistic heavy-ion physics & QCD - VIII

TIME: 11:15 to 12:45 (IST) Chair/Host: Chitrasen Jena

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:45	Amruta Misra [MINI-REVIEW]
		In-medium properties of Heavy Quarkonia
2.	11:45 to 12:00	Amal Jahan CS
		Open charm mesons in magnetized asymmetric strange hadronic mat-
		ter
3.	12:00 to 12:15	Surasree Mazumder
		Collisional energy loss of heavy quark in strong magnetic field
4.	12:15 to 12:30	Wadut Shaikh
		Recent bottomonium measurements in pp, p-Pb and Pb-Pb collisions
		at forward rapidity with ALICE at the LHC
5.	12:30 to 12:45	Sayak Chatterjee
		Feasibility studies of J/psi measurement with CBM detector setup at
-		FAIR SIS100 energies

Neutrino Physics - III

TIME: 11:15 to 13:00 (IST)

CHAIR/Host: Sanjib K Agarwalla

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:15 to 11:30	Arun Kumar Soma
		nEXO studies on neutrinoless double beta of ^{136}Xe
2.	11:30 to 11:45	Mouli Chaudhuri
		The Mitchell Institute Neutrino Experiment at Reactor (MINER)
3.	11:45 to 12:00	Anil Kumar
		A new approach to probe neutrino non-standard interactions in atmo-
		spheric neutrino experiments
4.	12:00 to 12:15	Kanishka Rawat
		Hierarchy Sensitivity with Combined Standard and Rock Muons in
		ICAL at India-based Neutrino Observatory
5.	12:15 to 12:30	Mohammad Nizam
		Hadron energy estimation from atmospheric neutrino events
6.	12:30 to 12:45	Honey Khindri
		Simulation study of electron energy resolution and reconstruction with
		thinner iron plates by using plastic scintillators in ICAL
7.	12:45 to 13:00	Krishnan Rama
		Fully constrained mass matrix: Can symmetries alone determine the
		flavon vacuum alignments?

PARALLEL-IX - 11:45 to 13:15 (IST)

Detectors development, future facilities and experiments, and societal applications - VII

TIME: 11:45 to 13:15 (IST) Chair/Host: B Satyanarayana

ZOOM: DAE-HEP-room2

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:45 to 12:15	Nagendra Krishnapura [MINI-REVIEW]
		Custom IC development for HEP applications
2.	12:15 to 12:30	Suresh S Upadhya
		Development of 256-pixel SiPM based Imaging Camera and its status
3.	12:30 to 12:45	Kiran S Gothe
		Development of Front-end Electronics for an SiPM Based Cherenkov
		Telescope Camera
4.	12:45 to 13:00	Mandar Saraf
		Fabrication, interfacing and performance of the High Voltage Bias
		Supply modules for ICAL RPCs
5.	13:00 to 13:15	Nagaraj Panyam
		Backend Systems for mini-ICAL

Relativistic heavy-ion physics & QCD - IX

TIME: 11:45 to 13:15 (IST)

CHAIR/Host: Sandeep Chatterjee

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:45 to 12:00	Pracheta Singha
		A beyond mean-field approach to Yang-Mills thermodynamics
2.	12:00 to 12:15	Ranjita Kumari Mohapatra
		In medium properties of axion within a Polyakov loop enhanced
		Nambu-Jona-Lasinio model
3.	12:15 to 12:30	Mahammad Sabir Ali
		Studying explicit $U(1)_A$ symmetry breaking in hot and magnetised
		two flavour non-local NJL model constrained using lattice results

4.	12:30 to 12:45	Sreekanth V
		Thermal dilepton production in collisional hot QCD medium in the
		presence of chromo-turbulent fields
5.	12:45 to 13:00	Balbeer Singh
		Jet quenching parameter in a Polyakov loop plasma
6.	13:00 to 13:15	Arvind Kumar
		ηB interactions in the strange baryonic matter

Neutrino Physics - IV

TIME: 11:45 to 13:15 (IST) Chair/Host: D Indumathi

SL	Тіме	SPEAKER AND TITLE
No.		
1.	11:45 to 12:15	S. Umasankar [MINI-REVIEW]
		Long-Baseline accelerator Neutrino Experiments
2.	12:15 to 12:30	Atika Fatima
		Effect of second class currents in $v_l(\bar{v}_l) - N$ scattering
3.	12:30 to 12:45	Farhana Zaidi
		$ v_{\tau}/\bar{v}_{\tau} ^{-40}$ Ar DIS cross sections with perturbative and nonperturbative
		effects
4.	12:45 to 13:00	Hariom Sogarwal
		Coherent pion production in Neutrino (antineutrino)-Nucleus interac-
		tion
5.	13:00 to 13:15	Sheeba Shafaq
		Enhanced violation of Leggett-Garg Inequality in three flavour neu-
		trino oscillations via non-standard interactions