

Session Program

12-16 Dec 2022

XXV DAE-BRNS HIGH ENERGY PHYSICS SYMPOSIUM 2022

DAE HEP 2022
HOSTED BY IISER MOHALI
DECEMBER 12TH TO 16TH

TOPICS

- ASTROPARTICLE PHYSICS AND COSMOLOGY
- BEYOND THE STANDARD MODEL
- FORMAL THEORY
- FUTURE EXPERIMENTS AND DETECTOR DEVELOPMENT
- HEAVY IONS AND QCD
- HIGGS PHYSICS
- NEUTRINO PHYSICS
- QUARK AND LEPTON FLAVOUR PHYSICS
- SOCIETAL APPLICATIONS
- TOP QUARK AND EW PHYSICS

Logos: IISER Mohali, TIFR, AMITY, and other participating institutions.

XXV DAE-BRNS High Energy Physics Symposium 2022

WG8 - Quark and Lepton Flavour Physics

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

Monday 12 December

15:00

WG8 - Quark and Lepton Flavour Physics: D1-S1 - Parallel - 4

Session |

Location: IISER Mohali, LH4, Lecture Hall Complex, IISER Mohali, Sector 81, Knowledge city, SAS Nagar, Punjab, India

Conveners: Dr Saurabh Sandilya, Dr. Rukmani Mohanta, Dinesh Kumar, Soumitra Nandi

15:00-15:25

CLFV searches in the tau sector

Speaker

Swagato Banerjee

15:30-15:45

Implications of new physics in semileptonic $b \rightarrow c l \bar{\nu}_l$ transitions.

Speaker

Ms Aishwarya Bhatta

15:45-16:00

Radiatively generated quarks and lepton masses in extended gauge theories

Speaker

GURUCHARAN MOHANTA

16:00-16:15

Measurement of CP-violating phase ϕ_s in the $B_{0_s} \rightarrow J/\psi \phi \rightarrow \mu+\mu-K+K-$ channel in pp collisions at $\sqrt{s} = 13$ TeV

Speaker

Samadhan Kamble

16:30

Tuesday 13 December

11:00

WG8 - Quark and Lepton Flavour Physics: D2-S1 - Parallel - 5

Session |

Location: IISER Mohali, LH4, Lecture Hall Complex, IISER Mohali, Sector 81, Knowledge city, SAS Nagar, Punjab, India

Conveners: Dr. Rukmani Mohanta, Soumitra Nandi, Dr Saurabh Sandilya, Dinesh Kumar

11:00-11:15

Direct CP asymmetry in Z' models

Speaker

Shireen Gangal

11:15-11:30

Search for lepton flavor violating decays of heavy resonances and quantum black holes in dilepton final states with full Run2 CMS data

Speaker

Dr Amandeep Kaur Kalsi

11:30-11:45

$D_q^{\pm} \rightarrow D_q \gamma$: Probing the inner structure of charm mesons

Speaker

Anshika Bansal

11:45-12:00

Scrutinizing the effects of new physics in $\Lambda_b \rightarrow \Lambda^{(*)} \mu^+ \mu^-$ and $\Lambda_b \rightarrow \Lambda^{(*)} \nu \bar{\nu}$ baryonic decays

Speaker

Nilakshi Das

12:00-12:15

Search for the decay $B_s \rightarrow \pi^0 \pi^0$ at Belle

Speaker

Jyotirmoi Borah

12:15-12:30

Measurement of lepton flavour universality ratio at Belle II

Speaker

Soumen Halder

12:30-12:45

Measurement of strong-phase difference between D_0 and $\bar{D}_0 \rightarrow K_S^0 K^+ K^-$ at BESIII

Speaker

Dr Krishnakumar Ravindran

13:00

Thursday 15 December

15:00

WG8 - Quark and Lepton Flavour Physics: D4 - S8 - Parallel - 2

Session |

Location: IISER Mohali, LH4, Lecture Hall Complex, IISER Mohali, Sector 81, Knowledge city, SAS Nagar, Punjab, India

Conveners: Rukmani Mohanta, Soumitra Nandi, Saurabh Sandilya, Dinesh Kumar

15:00–15:25

B anomalies: an experimental perspective

Speaker

James Libby

15:30–15:45

First time-dependent analysis of $B^0 \rightarrow K^0 \pi^0$ decays at Belle II

Speaker

Mr SAGAR HAZRA

15:45–16:00

$\Lambda_b \rightarrow p \tau \bar{\nu}$ decay in U_1 leptoquark model.

Speaker

Shabana Khan

16:00–16:15

Constraining New Physics with Possible DM Signatures from the Study of FCNC Processes

Speaker

Lipika Kolay

16:15–16:30

Measurement of B_s^0 lifetime in $B_s^0 \rightarrow J/\psi K_s^0$ decay mode

Speaker

Priyanka Sadangi

16:30