

XXV DAE-BRNS High Energy Physics Symposium 2022

Monday 12 December 2022

WG2-Beyond the Standard Model: D1 - S2 - Parallel - 5 - LH4 (17:00 - 18:30)

-Conveners: Bhawna Gomber; Sushil Chauhan; Pradipta Ghosh; Santosh Rai

| time | [id] title | presenter |
|-------|--|-------------------------|
| 17:00 | [375] Study of new physics effects in HVV (V=W,Z) couplings via single Higgs production at future electron-proton collider | SHARMA, Pramod |
| 17:15 | [574] Freeze-in Dark Matter Search at Colliders with Jet Substructure Analysis | KUNDU, Saumyen |
| 17:30 | [8] Two-component scalar and fermionic dark matter candidates in a generic U(1)X model | GOLA, Shivam |
| 17:45 | [7] Electroweak symmetry breaking and WIMP-FIMP dark matter | Mr PRADHAN, Dipankar |
| 18:00 | [166] Search for Dark Matter (DM) using monophoton final state in p-p collisions using the CMS detector at the LHC | ACHARYA, Shriniketan |
| 18:15 | [224] Dark matter and vacuum stability in a non-supersymmetric SO(10) GUT scalar dark matter model | Mr HAZARIKA, Nilavjyoti |

Tuesday 13 December 2022

WG2-Beyond the Standard Model: D2-S4 - Parallel - 2 - LH4 (15:00 - 16:30)

-Conveners: Sushil Chauhan; Santosh Rai; Pradipta Ghosh; Bhawna Gomber

| time | [id] title | presenter |
|-------|--|-------------------|
| 15:00 | [577] Muon and Electron ($g-2$) Anomalies with Non-Holomorphic Interactions in MSSM | Mr ALI, Md Isha |
| 15:15 | [445] Neutrino masses and mixing angles in the context of Bilinear R-parity violating supersymmetry | Ms MONDAL, Arpita |
| 15:30 | [279] Low-mass doubly-charged higgs bosons at LHC | SAHU, Rameswar |
| 15:45 | [276] SEARCH FOR NEW RESONANCE PRODUCTION IN $Z\gamma \rightarrow l\bar{l}\gamma$ FINAL STATE AT $\sqrt{s} = 13$ TeV USING CMS DETECTOR AT THE LHC | KAUR, Anureet |
| 16:00 | [105] Search for low-mass charged Higgs bosons at CMS | DAS, Indranil |
| 16:15 | [127] Precise probing of the inert Higgs-doublet model at the LHC | GHOSH, ANUPAM |

Wednesday 14 December 2022

WG2-Beyond the Standard Model: D3-S5 - Parallel - 2 - LH4 (11:00 - 13:00)

-Conveners: Santosh Rai; Pradipta Ghosh; Bhawna Gomber; Sushil Chauhan

| time | [id] title | presenter |
|-------|--|---------------------|
| 11:00 | [468] Confronting dark fermion with a doubly charged Higgs in the left-right symmetric model | Mr DEY, Shyamashish |
| 11:15 | [198] Search for LFV in $B_s \rightarrow \ell \ell \tau$ ($\ell = e, \mu$) decays at Belle | NAYAK, Lopamudra |
| 11:30 | [35] Search for SUSY in events with a photon, lepton, and missing transverse energy using full Run2 dataset at 13 TeV | MISHRA, Tribeni |
| 11:45 | [281] On the fate of electroweak vacuum and order of phase transition in Beyond Standard Model Scenarios | JANGID, SHILPA |
| 12:00 | [340] Search for Supersymmetry with a compressed mass spectrum in VBF topology with 1-lepton final states in pp collisions at $\sqrt{s} = 13$ TeV with CMS | Ms KAUR, Harjot |
| 12:15 | [238] Electroweak Phase Transition and Gravitational waves in an Extended Supersymmetric Model | BORAH, Pankaj |

WG2-Beyond the Standard Model: D3-S6 - Parallel - 2 - LH4 (16:00 - 18:00)

-Conveners: Bhawna Gomber; Sushil Chauhan; Santosh Rai; Pradipta Ghosh

| time | [id] title | presenter |
|-------|---|------------------|
| 16:00 | [391] Search for Vector-Like Quarks ($T' \rightarrow t(Wb)H(WW^*) \rightarrow t(lvb) H(4q)$) Decay with the CMS Detector at centre of mass energy 13 TeV. | CHHETRI, Arjun |
| 16:15 | [730] Exploring maverick top partner decays at the LHC | Mr VERMA, Shivam |
| 16:30 | [464] Leptoquark solutions to anomalies. | BHASKAR, Arvind |
| 16:45 | [465] Filling the Gap in the Vectorlike Quark Searches | NEERAJ, Cyrin |
| 17:00 | [492] Fermion masses From Structures in Abstract Spaces | SINGH, Aadarsh |
| 17:15 | [623] Searches for the Higgs decaying to two light pseudoscalars in the CMS experiment with Run-2 data | DAS, Pallabi |

Thursday 15 December 2022

WG2-Beyond the Standard Model: D4-S7 - Parallel - 2 - LH4 (11:00 - 13:00)

-Conveners: Pradipta Ghosh; Sushil Chauhan; Santosh Kumar Rai; Bhawna Gomber

| time | [id] title | presenter |
|-------|---|-------------------------|
| 11:00 | [779] Recent SUSY searches at ATLAS and CMS | HEGDE, Vinay |
| 11:30 | [681] BSM - TBC | DESAI, Nishita |
| 12:00 | [70] Longitudinal polarization asymmetry of Σ_b decays with the effect of non-universal Z' boson | BISWAS, Swagata |
| 12:15 | [639] Novel Proton Decays From Gauged Lepton Number Symmetry | ., Duttatreya |
| 12:30 | [530] Lights on the Dark in a Left-Right symmetric model | BHATTACHARYYA, Sanchari |