**Session Program**

**16–20 Dec 2026**

# XXVII DAE - BRNS High Energy Physics (HEP) Symposium 2026

## *Plenary Session*

IIT Hyderabad, CCE
https://physics.iith.ac.in/daehep2026/

# Wednesday 16 December

09:00

## Plenary Session

**Session** | **Location:** LHC-05

09:00–09:15 **Inauguration**

09:15–09:45 **The Physics Nobel Prize 2026: Mapping the Universe with Neutrinos**

**Speaker**
Raj Gandhi

09:45–10:15 **Black holes in string theory**

**Speaker**
Amitabh Virmani

10:30

11:00

## Plenary Session

**Session** | **Location:** LHC-05

11:00–11:30 **Higgs and Top Physics-- An overview**

**Speaker**
Dilip Kumar Ghosh

11:30–12:00 **Prospects of electroweak, top and Higgs physics at CMS**

**Speaker**
Ankita Mehta

12:00–12:30 **An Introduction to Mathematica(l) Properties of Feynman Integrals**

**Speaker**
B Ananthanarayan

12:30–13:00 **Electron Accelerators for Medical Radioisotope Production**

**Speaker**
Shigeru Kashiwagi

13:00

# Thursday 17 December

09:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

09:00–09:30 **Recent highlights from CMS and future perspective**

**Speaker**
Md Naimuddin

09:30–10:00 **Exploring Hadrons from First Principles: Insights from Lattice QCD**

**Speaker**
M Padmanath

10:00–10:30
**When Experiments Slow Down, Consistency Speaks Up: The Shrinking Space of Possible Worlds**

**Speaker**
Diptomoy Ghosh

10:30

11:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

11:00–11:30 **Flavor Physics Today and Future Prospects**

**Speaker**
Teppei Kitahara

11:30–12:00 **Recent updates in neutrino oscillations**

**Speaker**
Christoph Ternes

12:00–12:30 **Loop-induced neutrino mass: An overview**

**Speaker**
Dipankar Das

12:30–13:00 **Aspects of dark matter cosmology**

**Speaker**
Satyanarayan Mukhopadhyay

13:00

# Friday 18 December

09:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

09:00–09:30 **Exotic Hadrons: The New Frontier of QCD**

**Speaker**
Abhishek Mohaptara

09:30–10:00 **Beyond the Standard Model: A Biased Perspective**

**Speaker**
Sandeepan Gupta

10:00–10:30 **TBA**

**Speaker**
Yutaka Ushiroda

10:30

11:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

11:00–11:30 **Dark Sector: Models and Exploration Opportunities**

**Speaker**
Bhaskar Dutta

11:30–12:00 **LZ High Recoil Energy WIMP Search Results**

**Speaker**
Jonathan A Orpwood

12:00–12:30 **CMB with a Twist — Scale-dependent Cosmic Birefringence**

**Speaker**
Mustafa Amin

12:30–13:00 **Inflaton accretion onto Primordial Black Holes**

**Speaker**
Debaprasad Maity

13:00

14:30

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

14:30–15:00 **The ALICE experiment at the LHC**

**Speaker**
Kai Schweda

15:00–15:30 **Probing Neutrino Oscillations with Long-Baseline Experiments**

**Speaker**
Zoya Vallari

15:30–16:00 **TBA**

**Speaker**
Rafael de Sa

16:00

# Sunday 20 December

09:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

09:00–09:30 **Three loop QCD corrections to electroweak radiative parameters**

**Speaker**
Narayan Rana

09:30–10:00 **Experimental review of quark-flavour physics**

**Speaker**
James Libby

10:00–10:30 **Current experimental and theoretical status of the muon g−2**

**Speaker**
Tsutomu Mibe

10:30

11:00

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

11:00–11:30 **New ideas in baryogenesis**

**Speaker**
Debasish Borah

11:30–12:00 **Some Aspects of Non-thermal Dark Matter**

**Speaker**
Koushik Dutta

12:00–12:30 **BSM physics with Cosmology**

**Speaker**
Kuver Sinha

12:30–13:00 **TBA**

**Speaker**
Frank Zimmermann

13:00

14:30

## Plenary Session

**Session** | **Location:** IIT Hyderabad, CCE, https://physics.iith.ac.in/daehep2026/

14:30–15:00

**Primordial Black Holes and their Observational Signatures: Understanding the Universe in a New Light**

**Speaker**
S Shankaranarayanan

15:00–15:30 **Geometric probe and dark energy**

**Speaker**
Shadab Alam

15:30–16:00
**Rediscovering the mission of accelerator-based particle physics today: An ode to the bottom-up approach**

**Speaker**
Biswarup Mukhopadhyaya

16:30

16:00–16:15 **Closing**