## PATRONS

**Prof Rajiv Prakash** *Director, IIT Bhilai*

## CONVENER

**Dr. Sudhanwa Patra** Associate *Professor & Head, Dept. of Physics,IIT Bhilai*

## INTERNATIONAL ADVISORY COMMITTEE

**Prof. Debasish Borah (IIT Guwahati)**
**Prof. Frank Deppisch (UCL, UK)**
**Prof. Bhupal Dev (Washinton University, St.Louis)**
**Prof. Amol Dighe (TIFR)**
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**Prof. Gagan Mohanty (TIFR)**
**Prof. R . N. Mohapatra (University of Maryland, USA)**
**Prof. Raghunath Sahoo (IIT Indore)**
**Prof. Thomas Schwetz (KIT, Germany)**
**Prof. Sudhir Vempati (IISc. Bangalore)**
**Prof. Urjit Yajnik (IIT Bombay)**

## LOCAL ORGANIZING COMMITTEE

**Prof. Sudhanwa Patra (IIT Bhilai) - Convenor**
**Prof. Mahavir Sharma (IIT Bhilai)**
**Prof. Sabyasachi Ghosh (IITBhilai)**

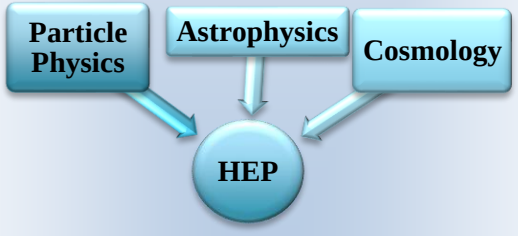
### Student Volunteers

**Cho Win Aung**
**Pratik Adarsh**
**Rajrupa Banerjee**
**Thunder Zaw Win**
**Rittik Sharma**
**Taramati**
**Dani Rose J**

## CONFERENCE OBJECTIVE

The International Conference on Frontiers of High Energy Physics (ICFHEP 2024) marks its inaugural edition as a premier platform for researchers, academics, and industry professionals to converge and explore new directions in high energy physics. The conference aims to foster the exchange of original ideas, innovative techniques, and transformative applications, with a focus on pivotal areas such as multi-messenger astrophysics, beyond the Standard Model (BSM) phenomenology, quark-gluon plasma (QGP) studies, collider physics, and the integration of quantum information technology with machine learning. By bringing together experts and early-career researchers, ICFHEP 2024 seeks to drive collaboration and inspire advancements at the frontiers of theoretical and experimental physics.

## THEME AND SUBTHEME



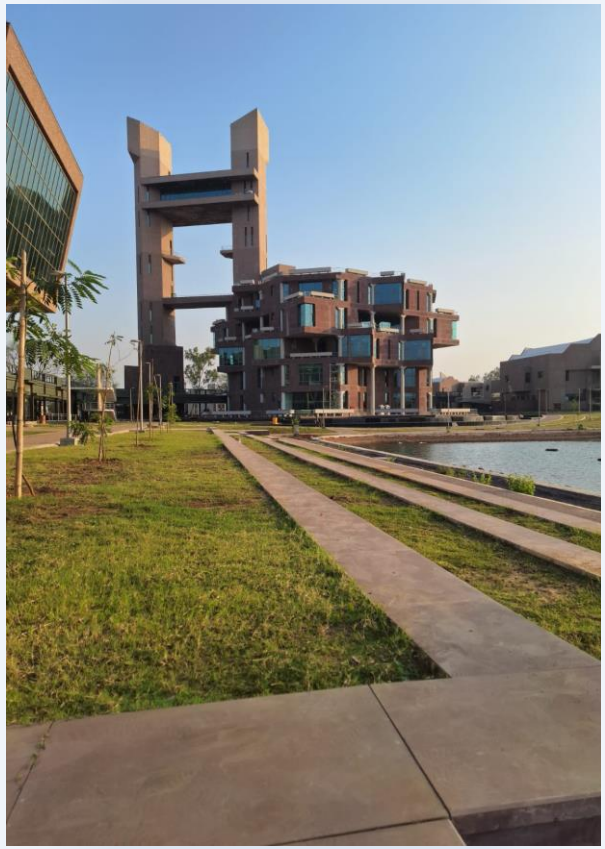

- Multi-messenger Astrophysics
- LHC and Collider phenomenology
- Flavor anomalies and hints of BSM
- Neutrino Phenomenology
- Quark Gluon Plasma
- Quantum Information HEP perspective
- ML in HEP and multi-messenger
- Dark Matter and Gravitational waves

## PLENARY SPEAKER

**Prof. Frank Deppisch (UCL, UK)**
**Prof. Anjan Giri (IIT Hyderabad)**
**Prof. Srubabati Goswami (PRL)**
**Prof. Sucheta Kulkarni (Austria)**
**Prof. Poonam Mehta (JNU)**
**Prof. Hiranmay Mishra (NISER)**
**Prof. Rukmani Mohanta (UoH)**
**Prof. Bedangadas Mohanty (NISER)**
**Prof. Pravat K. Mohanty (TIFR)**
**Prof. Prashanta K Panigrahi (IISER Kolkata)**
**Prof. Radoslaw Ryblewski (Poland)**
**Prof. Urjit Yajnik (IIT Bombay)**

# International Conference in Frontiers in High Energy Physics

**13th - 15th February 2025**



## Organized By

**Department of Physics**
**Indian Institute of Technology Bhilai**
**Durg, Chhattisgarh**

## ABOUT INDIAN INSTITUTE OF TECHNOLOGY BHILAI

The Indian Institute of Technology Bhilai was established in 2016 by the Ministry of Education (formerly the Ministry of Human Resource Development) in the state of Chhattisgarh with the aim of contributing and disseminating world-class education and research in engineering, basic sciences, and the humanities. Its first batch of students was inducted in July 2016, and the institute has shifted fully to its permanent campus. The new academic session began on August 7, 2023, with the operationalization of all academic activities on the permanent campus.

Our institute has established the required infrastructure; including a permanent campus spread over 400 acres in Bhilai, Durg district, Chhattisgarh. Our highly qualified faculty members are renowned in their respective fields and are recognized globally for fundamental and result-oriented research.

## ABOUT THE DEPARTMENT OF PHYSICS, IIT BHILAI

The Department of Physics, Indian Institute of Technology (IIT) Bhilai, came into existence along with the establishment of the IIT Bhilai in 2016 and has already made its mark at the national and international level with several funded research projects, national-level awards, research collaborations across the country and globe. Based on the solid foundation of state-of-the-art undergraduate teaching of BTech students and postgraduate degree programs backed by a group of very bright, ambitious young faculty members, the Department is thriving and expanding rapidly to be one of the prominent departments within the institute and country. The Department is currently active in cutting edge research in the areas of condensed matter theory and experiment, soft matter, high energy, nuclear physics, cosmology, and astrophysics. Central to our mission is the training of the next generation of physicists through courses, seminars, access to cutting-edge experimental infrastructures, and mentoring by faculty members that are among the best in the world in their field.

## ADDRESS FOR CORRESPONDENCE


**Contact us :** **Dr. Sudhanwa Patra**

**Email Id** : sudhanwa@iitbhilai.ac.in

**Contact Number** : 07894215336


## ELIGIBILITY

Academicians, Research Scholars. UG, PG.

## REGISTRATION FEE

| | |
|---|---|
| **PhD Students :** | **Rs.1500/-** |
| **Post Doctoral Fellow:** | **Rs.2000/-** |
| **Faculty:** | **Rs.4000/-** |

All the offline payment should made by DD/CASH. For Online Payment :

**Account Detail**

**Account Number : 2158000102065152**

**Bank Name: Punjab National Bank**

**Branch :Nandini Branch Bhilai**

**IFSC Code: PUNB0215800**

## IMPORTANT DATES

1. **Last Date of Registration : 31st December 2024**
2. **Confirmation of participation : 15th January 2025**
3. **Date of Conference : 13-15th February 2025**

## ONLINE REGISTRATION LINK

**https://events.iitbhilai.ac.in/icfhep2025**

## VENUE OF CONFERENCE

**13-15 February 2025**

Lecture Hall Conmplex, IIT Bhilai

Kutelabhata,

Durg, Chhattisgarh, India, 491001

# Frontiers in High Energy Physics

**13th - 15th February 2025**

## OFFLINE REGISTRATION FORM

Name (Block Letter):

Designation:

Organization/Institute:

Address For Communication:

Mobile No.:

Email:

Accomadation Required: Yes/No

Highest Academic Qualification:

Specialization:

Experience:

1. Teaching:
2. Research:
3. Industrial:

Payment Mode (DD/Cash):

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Place:

Date:

Signature Of The Applicant