

HIGH ENERGY PHYSICS

SPEAKERS



Dr. Poonam Mehta,
JNU, New Delhi

Ph.D. from Delhi University in 2005, 19+ years of post Ph.D. research experience,
Subject area: High energy physics

Talk title: Majorana CP violation insights from decaying neutrinos



Dr. Moon Moon Devi,
Tezpur University, Assam

Ph.D. from TIFR, Mumbai in 2015, 9+ years of post Ph.D. research experience,
Subject area: High energy physics

Talk title: Machine learning for particle detector

HIGH ENERGY PHYSICS

SPEAKERS

Dr. Ipsita Saha,
IITM, Chennai

Ph.D. from IACS, Kolkata in 2016, 8+ years of post Ph.D. research experience, Subject area: High energy physics

Talk title: Lessons for BSM Physics from LHC Searches

Dr. Binata Panda,
IIT(ISM) Dhanbad

Ph.D. from IOP, Bhubaneswar in 2012, 12+ years of post Ph.D. research experience, Subject area: High energy physics

Talk title: Gauge Covariance of Entropy Current in Higher Derivative Theories of Gravity

CONDENSED MATTER PHYSICS (THEORY)

SPEAKERS



Dr. Archana Mishra,
Delhi University, New Delhi

Ph.D. from IMSc, Chennai in 2016, 8+ years of post Ph.D. research experience, Subject area: Condensed matter physics

Talk title: Quantum computing with Yu-Shiba-Rusinov states in superconductors



Dr. Rumi De, IISER Kolkata

Ph.D. from IISc in 2006, 18+ years of post Ph.D. research experience, Subject area : Condensed matter physics

Talk title: The survival dynamics of a prey swarm and the emergence of various escape patterns under a predator attack

CONDENSED MATTER PHYSICS (THEORY)

SPEAKERS

Dr. Sudeshna Sen,
IIT (ISM) Dhanbad

Ph.D. from JNCASR in 2016, 8+ years
of post Ph.D. research experience,
Subject area: Condensed matter
physics

Talk title: The Mott-Hubbard metal-
insulator transition: new insights into a
classic problem

Dr. Urna Basu,
SNBNCBS, Kolkata

Ph.D. from SINP in 2013, 11+ years of
post Ph.D. research experience, Subject
area : Condensed matter physics

Talk title: Active motion with multiple
time-scales: Emergent dynamical
regimes

ASTROPHYSICS AND COSMOLOGY

SPEAKERS



Dr. Suchetana Chatterjee,
Presidency University, Kolkata

Ph.D. from Pittsburgh University, USA in 2009, 15+ years of post Ph.D. research experience, Subject area : Astrophysics and Cosmology

Talk title: Studying Supermassive Black Holes in the Universe: A Multiwavelength Approach



Dr. Suratna Das,
Ashoka University, Sonapat

Ph.D. from PRL, Ahmedabad in 2011, 13+ years of post Ph.D. research experience, subject area : Cosmology and Astroparticle Physics

Talk title: Some 'background checks' of Warm Inflation

ASTROPHYSICS AND COSMOLOGY

SPEAKERS



Dr. Sudipta Das,
Visva-Bharati University

Ph.D from Jadavpur University, Kolkata
in 2008, 16+ years of post Ph.D.
research experience, Subject area :
Cosmology and Gravitation

Talk title: Testing models beyond Λ CDM



Dr. Susmita Adhikari,
IISER Pune

Ph.D. from University of Illinois Urbana
Champaign, USA in 2017, 7+ years of
post Ph.D. research experience, Subject
area : Cosmology & Astrophysics

Talk title: Understanding the nature of
dark matter using halos from dwarf to
cluster scales

CONDENSED MATTER PHYSICS (EXPERIMENTAL)

SPEAKERS



Dr. Vidya Kochat,
IIT Kharagpur

Ph.D. from IISc Bengaluru in 2014, 10+ years of post Ph.D. research experience, Subject area: Condensed matter physics

Talk title: Broken symmetry quantum Hall states, layer hybridization and screening effects in twisted bilayer graphene at intermediate angles



Dr. Jayita Nayak,
IIT Kanpur

Ph.D. from Devi Ahilya Viswavidyalaya, Indore in 2015, 10+ years of post Ph.D. research experience, Subject area: Condensed matter physics

Talk title: Electronic structure and magnetotransport properties of axion insulators

CONDENSED MATTER PHYSICS (EXPERIMENTAL)

SPEAKERS



Dr. Somdutta Mukherjee,
C. V. Raman Global University,
Bhubaneswar

Ph.D. from IIT Kanpur in 2013, 10+ years
of post Ph.D. research experience,
Subject area: Experimental condensed
matter physics

Talk title: Gallium Ferrite: Journey from a
leaky dielectric to room temperature
multiferroic



Dr. Srijani Mallik,
SINP, Kolkata

Ph.D. from NISER in 2019, 5+ years of
post Ph.D. research experience, Subject
area: Condensed matter physics

Talk title: Exploring Spin-Orbitronics and
Superconductivity in KTaO_3 -Based Two-
Dimensional Electron Gases

CONDENSED MATTER PHYSICS (EXPERIMENTAL)

SPEAKERS



Dr. Sriparna Chatterjee,
IMMT, Bhubaneswar

Ph.D. from TIFR in 2012, 12+ years of
post Ph.D. research experience, Subject
area: Condensed matter physics

Talk title: Journey with 2-D MXenes: From
Pioneering Synthesis to Scalable
Commercialization



Dr. Jhuma Sannigrahi,
IIT Goa

Ph.D. from IACS in 2016, 8+ years of post
Ph.D. research experience, Subject area:
Condensed matter physics

Talk title: Uncovering the Mysteries of
Multiferroics with New Insights from
 $\text{CaMn}_7\text{O}_{12}$

CONDENSED MATTER PHYSICS (EXPERIMENTAL)

SPEAKERS



Dr. Manju Unnikrishnan,
IMMT, Bhubaneswar

Ph.D. from IISc in 2008, 15+ years of post
Ph.D. research experience, subject area:
Condensed matter physics

Talk title: In Pursuit of Intelligent Materials:
From Green Energy to Smart Displays



Dr. Debalaya Sarker,
UGC-DAE-CSR, Indore

Ph.D. from IIT Delhi in 2017, 7+ years of
post Ph.D. research experience, Subject
area: Condensed matter physics

Talk title: Data-Analytics for accelerated
experimental discovery of functional
materials

CONDENSED MATTER PHYSICS (EXPERIMENTAL)

SPEAKER



Dr. Mohua Chakraborty,
C. V. Raman Global University,
Bhubaneswar

Ph.D. from IIT(ISM) Dhanbad in 2017, 7+
years of post Ph.D. research experience,
Subject area: Condensed matter physics

Talk title: Electrochemical reconstruction of
Ni/Co- based precursors: Exploring novel
materials for Supercapacitors

A TRIBUTE TO PROF. ROHINI M. GODBOLE

SPEAKERS



**Prof. Srubabati Goswami,
PRL, Ahmedabad**

A leading high energy physicist and a senior professor in PRL, Ahmedabad. She is internationally acclaimed for her pioneering contribution in the field of neutrino physics and neutrino oscillation.

**Talk title: Pioneering Change : Rohini Godbole's Journey and
Vision for Women in Science**



**Prof. Genevieve Belanger,
LAPTh, Annecy, France**

A world-renowned high energy physicist and a senior professor in LAPTh, Annecy. She is globally recognised for her pioneering contribution in the field of dark matter and astroparticle physics.

**Talk title: SUSY, Higgs and dark matter: a tribute to Prof. Rohini
Godbole**

SPECIAL TALK

SPEAKER

**Prof. Rajeswari S. Raina,
Shiv Nadar University,
Delhi-NCR**



Prof. Rajeswari S. Raina is a senior professor at school of humanities and social sciences in Shiv Nadar University, Delhi NCR. She is a world-renowned expert in understanding and analyzing the complex relationship between economic development and environmental sustainability. She is a well published researcher, advisor to and participant in several environment-and-development programmes, public policy and scientific research programmes, both national and international, community-led and government or donor-led.

**Talk title: Beyond Numbers and Mentors: Cognitive Virtues,
Gender and Science**

PANEL DISCUSSION

TOPIC: LEADERSHIP ROLES FOR WOMEN IN SCIENCE IN INDIA



**Prof. Kajari Majumdar, TIFR,
Exp. High Energy Physicist**

A leading expert in experimental high energy physics. For almost last 3 decades, she has been working in the CMS experiment at the CERN-LHC and made significant research contributions.



**Prof. Vandana Nanal, TIFR,
Nuclear Physicist**

A world-renowned expert in nuclear physics and a senior professor in TIFR, Mumbai. She served as the General Secretary of the Indian Physics Association.



**Prof. Sanjay Kumar Swain, NISER,
Exp. High Energy Physicist**

A leading expert in experimental high energy physics and a professor at NISER, Bhubaneswar. He has been working in the CMS experiment for decades and is the present India-CMS Spokesperson.

PANEL DISCUSSION

TOPIC: LEADERSHIP ROLES FOR WOMEN IN SCIENCE IN INDIA



**Prof. Shyama Rath, Delhi University,
Condensed Matter Physicist**

A renowned experimental condensed matter physicist and a professor in the department of physics and astrophysics, Delhi University.



**Prof. Sumedha, NISER, Condensed
Matter Physicist**

A leading expert in condensed matter physics and an associate professor at NISER, Bhubaneswar. She is Simons Associate, International Centre for Theoretical Physics (ICTP), Trieste, Italy (2020-2025).



**Dr. Suratna Das,
Ashoka University, Astroparticle
Physicist**

A leading expert in cosmology and astroparticle physics and an assistant professor at Ashoka University, Sonenpath.