



Press Release

IIT Hyderabad to host *ANOMALIES 2020 - Anomalies in High Energy Physics Phenomenology an International Online Conference* in association with Washington University, Brookhaven National Laboratory and IMSc. Chennai

It will be a step towards successful national and international collaborations in recent future.

HYDERABAD, 9th September 2020: Indian Institute of Technology Hyderabad will be hosting an International Online Conference on the anomalies in High Energy Physics Phenomenology titled “ANOMALIES 2020” from 11th to 13th September 2020. It is being organized by Dr. Priyotosh Bandyopadhyay, Assistant Professor, Department of Physics, IIT Hyderabad in collaboration with Dr. Bhupal Dev, Assistant Professor, Department of Physics, Washington University, St. Louis, USA, Prof. Amarjit Soni, Brookhaven National Laboratory, Brookhaven, USA and Prof. Rahul Sinha, The Institute of Mathematical Sciences, Chennai. ***Following last year, it is the second occasion for the annual conference to be conducted under the appellation “ANOMALIES”.***

The topics to be ventilated include:

- i. Dark matter searches,
- ii. Signatures of gravitational waves,
- iii. Tension between theoretical and experimental values of $g-2$ for muon and electron,
- iv. Recent updates on K and B physics,
- v. Current status of neutrino sector and,
- vi. Various other beyond Standard Model (BSM) new physics phenomena.

The objective of this conference is to unite scientists, researchers and students across the globe working in the area of Particle Physics and discuss the recent developments of the field. More than fifty speakers including twenty-four foreign delegates, Padmashree awardee Prof. Rohini Godbole from The Indian Institute of Science, Bangalore (IISc) and ICTP award winner Prof. Yasaman Farzana from Institute for Research in Fundamental Sciences, Tehran, Iran (IPM) will be presenting their research work.

Speaking about the importance of this Conference, Dr. Priyotosh Bandyopadhyay, Conference Coordinator and Assistant Professor, Department of Physics, IIT Hyderabad said, “This conference mainly focused on addressing the different theoretical and experimental anomalies in the field of High Energy Physics. This includes Large Hadron Collider, Belle, XENON1T and LISA experiments which address four major areas of HEP, some of their results and future prospects along with theoretical calculations will also be discussed.”

The conference is likely to be attended by above 150 participants from all over the world. It is expected that this conference will lead the academia

to a better understanding of this field and various successful national and international collaborations in recent future.

Follow the link to know more about the Conference: <https://www.iith.ac.in/~anomalies19/anomalies2020.html>

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About IIT Hyderabad

Indian Institute of Technology Hyderabad (IITH) is one of the six new Indian Institutes of Technology established by the Government of India in 2008. In a short span of **12** years, the institute built on an imposing **570**-acre campus and has been ranked among the top ten institutes for four consecutive years in the National Institute Ranking Framework (NIRF) released by the Ministry of Human Resource Development (MHRD), Government of India. The Institute was also ranked under Top **#20** in the recent edition of Atal Ranking of Institutions on Innovation Achievements (ARIIA) introduced this year by MHRD to systematically rank all major higher educational institutions and universities in India on indicators related to 'Innovation and Entrepreneurship Development' among students and faculties.

IIT Hyderabad has close to **221** full-time faculty, **2,855** students of whom **20** per cent are women, nearly **200** state-of-the-art laboratories and five research and entrepreneurship centres. The Institute has a strong research focus with more than Rs. **500** crore of sanctioned research funding while PhD scholars account for about **30** per cent of total student strength. IITH students and faculty are at the forefront of innovation with more than **1,500** research publications and patent disclosures, **300** sponsored/ consultancy projects and **50** industry collaborations. IITH has MoUs with **50** universities in the U.S., Japan, Australia, Taiwan and Europe. IITH has been a pioneering change in pedagogy with fractal academic programs that atomizes course modules, encourage interdisciplinary learning, spanning innovative technology, fundamental science, liberal arts and creative arts like photography, theatre and painting.

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