

## **Press Release**

**IIT Hyderabad to host *International Workshop on “Laboratory Astrophysics with Intense Laser: Particle Generation and Application”* on December 7<sup>th</sup> – 8<sup>th</sup> 2020.**

***It will be a step towards strengthening national and international collaborations in the research.***

**HYDERABAD, 24<sup>th</sup> December 2020:** Indian Institute of Technology Hyderabad will be hosting an International Workshop on “Laboratory Astrophysics with Intense Laser: Particle Generation and Application” on December 7<sup>th</sup> – 8<sup>th</sup>, 2020. It is being organized by Dr. Vandana Sharma, Associate Professor, Department of Physics, IIT Hyderabad in association with University of Oxford UK, Tata Institute of Fundamental Research and Central Laser Facility

***The workshop covers broadly the two topics like Intense Laser Physics - Generation and its Applications and Laboratory astrophysics with Lasers. Last date to register is November 25, 2020.***

Participants from different parts of the world will present results on laser particle generation, acceleration, detection and secondary emissions and their applications.

**Speaking about the importance of this Conference, Dr. Vandana Sharma, Conference Coordinator and Associate Professor, Department of Physics, IIT Hyderabad said,** *“In addition, a different aspect of interaction of Lasers, called Laboratory Astrophysics wherein an active synergy between laboratory experiments and theoretical modelling along with astronomical observation will be presented. The workshop will be held virtually for two days and is composed of invited specialized lectures, student talks and poster presentations.”*

Speakers includes eminent academicians like Prof. Alex Schekochihin - University of Oxford UK, Prof. Amrita Das - IIT Delhi, Dr. Amit Lad – TIFR, Dr. Brian Reville – MPIK, Heidelberg, Germany, Dr. Charlotte Palmer – Queen’s University Belfast, UK, Dr. Hye-Sook Park – Lawrence Livermore National Lab, USA, Dr. Ram Gopal – TIFR, Prof. Robert Bingham – Rutherford Appleton Lab, UK, Dr. Sivarama Krishnan – IIT Madras and Planetary Speaker – Prof. Paul Mckenna – University of Strathclyde, UK.

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 future.

Follow the link to know more about the Conference:  
<https://www.indouklaserworkshop.com/>

## **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, **2,911** 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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