



The Abdus Salam
**International Centre
for Theoretical Physics**



International Conference on Photophysics and Photochemistry

Description:

This conference aims to bring together global experts to discuss advances in photophysics and photochemistry with a focus on renewable energy, light-matter interactions, and interdisciplinary innovation.

MORE INFORMATION:

The conference aims to foster collaboration between theorists and experimentalists in the fields of photophysics and photochemistry, with a strong focus on the participation of researchers from developing and underrepresented communities. It is designed to provide a dynamic and interactive platform for in-depth discussions between established experts and early-career researchers and students. The scientific program will cover a broad range of topics, including green synthetic methodologies, photo(electro)catalysis, carrier transport phenomena, single-junction/tandem photovoltaics, CO₂ reduction reactions, and advanced spectroscopic techniques. Distinctively, the conference emphasizes interdisciplinary collaboration by uniting specialists from both photophysics and photochemistry. The program will feature invited lectures, contributed talks, and poster sessions.

TOPICS:

- Artificial photosynthesis
- Photo(electro)catalytic water splitting
- Carbon dioxide and nitrogen reduction
- Photoelectrochemical cells
- Charge carrier recombination pathways
- Photovoltaics (monolithic/tandem, bulk/anomalous), LED, photodetectors
- Photoluminescence spectroscopy
- Polarization-sensitive optoelectronic devices
- Nonlinear optics
- Valleytronics
- Quantum Emitters
- Quantum-confined excitonic systems
- Exciton-polariton transport
- Theoretical and experimental synergy in energy materials
- Discovery of Photovoltaic materials using AI and ML

SPEAKERS (to be confirmed):

S. Ahmad
IIT Jodhpur, India
Sudip Chakraborty
HRI Allahabad, India
Feng-Chuan Chuang
NSYSU, Taiwan
Debashree Ghosh
IACS Kolkata, India
Subhradip Ghosh
IIT Guwahati, India
S. K. Pati
JNCASR, India
Dinesh Kabra
IIT Bombay, India
Mukul Kabir
IISER Pune, India
Deepa Khushalani
TIFR India
Y. Liu
A*STAR IHPC, Singapore
Tharamani C. Nagaiah
IIT Ropar, India

Chandrabhas Narayana
JNCASR, India
Biswarup Pathak
IIT Indore, India
K. Polychronopolou
Khalifa University, UAE
Atikur Rahman
IISER Pune, India
D D Sarma
IISc Bangalore, India
Biplab Sanyal
Uppsala University, Sweden
Bahadur Singh
TIFR, India
Shuxia Tao
Eindhoven University, Netherlands
T. Leong Tan
A*STAR IHPC, Singapore
Fedor Vasilievich
Khalifa University, UAE
Umesh V Waghmare
JNCASR, India



26 - 28 March 2026



Mumbai, India



**Deadline:
20 December 2025**

DIRECTORS:

A. Alam, Indian Institute of Technology, Bombay, India
N. Singh, Khalifa University, United Arab Emirates

ICTP SCIENTIFIC CONTACT:

A. Hassanali, ICTP, Italy

FURTHER INFORMATION:

E-mail: smr4189@ictp.it

Web: <http://indico.ictp.it/event/11115/>

Female scientists are encouraged to apply.



GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There will be no registration fee from the attendees participating from developing countries, but nominal registration fee may apply from the developed and host country participants.

