



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:

S. Ahmad
Indian Institute of Technology Jodhpur, India
S. Bhattacharya
Birla Institute of Technology and Science Pilani, India
T. C. Nagaiah
Indian Institute of Technology Ropar, India
S. Chakraborty
Harish-Chandra Research Institute (HRI) Allahabad (Prayagraj), India
F. Chuan-Chuang
NSYSU, Taiwan
D. Das Sarma
Indian Institute of Science, India
T. Das
Harish-Chandra Research Institute, India
S. Dutta Choudhury
Bhabha Atomic Research Centre, Mumbai, India
D. Ghosh
School of Chemical Sciences, Indian Association for the Cultivation of Science, India
S. Ghosh
Indian Institute of Technology Guwahati, India
M. Jain
Indian Institute of Science, India
M. Kabir
Indian Institute of Science Education and Research, India
D. Kabra
Indian Institute of Technology Mumbai, India
D. Khushalani
Tata Institute of Fundamental Research, India
A. Kumar Chandiran
Indian Institute of Technology Chennai, India
S. Kumar Gupta
Bhabha Atomic Research Centre, India
Y. Liu
A*STAR Institute of High Performance Computing (IHPC), Singapore

C. Narayana
Jawaharlal Nehru Centre for Advanced Scientific Research, India
P. R. Nair
Indian Institute of Technology Bombay, India
K. S. Narayan
Jawaharlal Nehru Centre for Advanced Scientific Research, India
S. K. Pati
Jawaharlal Nehru Centre for Advanced Scientific Research, India
B. Singh
Tata Institute of Fundamental Research, India
A. Yella
Indian Institute of Technology Bombay, India
U. Waghmare
Jawaharlal Nehru Centre for Advanced Scientific Research, India
S. Ray
Department of Physics, IIT Kharagpur, India
A. Rahman
Indian Institute of Science Education and Research (IISER) Pune, India
B. Sanyal
Uppsala University, Sweden
S. Tao
Eindhoven University of Technology, Netherlands
K. Polychronopoulou
Khalifa University, UAE
S. Patil
Indian Institute of Science, India
B. Pathak
Indian Institute of Technology Indore, India
K. Tarafder, National Institute of Technology Karnataka, Surathkal, India
F. Vasilievich Kusmartsev
Khalifa University, UAE



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.

