

# PLASMA-2025



**Saturday, 27 December 2025 - Monday, 29 December 2025**

**Indian Institute of Technology, Tirupati**

## Scientific Programme

## **Fundamental Plasma**

Basic Plasma Physics, Experiments, Computation/Simulation of Basic Plasma, diagnostics of basic plasma etc

## **High Temperature Plasma**

Fusion plasma experiments, Tokamak plasma, Fusion plasma Diagnostics, etc

## **Exotic and Pulsed Plasma**

Dusty plasma, Positron plasma, quark - gluon plasma, quantum plasma, Pulsed plasma, laser produced plasma etc.

## **Fusion Science & Technology**

Technology oriented, ITER related topics, Tokamak plasma heating, Tokamak plasma control, Tokamak Plasma first wall, divertor, cryostat, Superconducting magnets, heavy vacuum pumps, power supply for tokamak plasma production etc

## **Simulated Plasma**

Plasma theory by simulations, PIC simulation, Huge computer codes for plasma studies etc

## **Astrophysical & Space Plasma**

Astrophysical plasma, space plasma, solar plasma, Sunspot, Solar flares, Solar wind, ionospheric physics, geomagnetism, etc.

## **Plasma Applications**

Industrial and Societal applications of plasma, low temperature industrial plasma, applied plasma experiments, plasma-material interaction, plasma devices and systems, simulation of plasma devices etc