

STAI

SEMINARS ON TECHNOLOGICAL ADVANCES AND
INNOVATION



**SCIENTIFIC
BALLOONING
ACTIVITIES AT TIFR
BALLOON FACILITY**

Stalin Peter G



TATA INSTITUTE OF FUNDAMENTAL RESEARCH

MAY

15th

2024

TIFR H Auditorium 11:30 Hrs

Scientific Ballooning Activities at TIFR Balloon Facility

STALIN PETER G

TIFR BALLOON FACILITY
HYDERABAD

Since its inception TIFR Balloon Facility actively participated in scientific ballooning activities. It provides an end-to-end solution in scientific ballooning right from balloon design, balloon fabrication, balloon launch, data collection and payload recovery. TIFR Balloon Facility launches scientific balloons which carry payloads as high as 1000 kg to an altitude of 32 km. The scientific payloads related to Astronomy, Astrophysics, Astrobiology, Atmospheric Science, etc. are carried along with the balloons. TIFR Balloon Facility also supplies balloons to various organizations across the world.

This talk focuses mainly on introduction to Balloon Facility, its main activities which include Balloon Design, Balloon Fabrication, Balloon Launches and Payload Recovery. It also focuses on various launch techniques like static launch and dynamic launch. The talk finishes with its major recent achievements and also its support to young scientists and students.

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Tea/Coffee 11:15 Hrs