

## **Internal Webinar**

# **Dynamics of Polymer Translocation and Active Packaging in Confined Geometries**

**Gokul Upadhyay**

**IISER, Mohali**

The translocation of biopolymers through nanopores and their packaging in confined geometries are fundamental processes in biology and nanotechnology. I will present studies on the translocation of semiflexible polymers through nanopores with oscillating widths and time-dependent driving forces, revealing enhanced selectivity and efficiency. Additionally, I will discuss the packing and ejection dynamics of active polymers in capsids of different geometries, highlighting the role of polymer stiffness and activity in these processes.

***Tuesday, Feb 18<sup>th</sup> 2025***

***14:30 Hrs***

