

# **Students' Annual Webinar**

## **Dynamic and static properties of a confluent epithelial monolayer**

**Souvik Sadhukhan**

The physical properties of a cell monolayer are relevant for several biological processes such as morphogenesis, wound healing, bronchial asthma etc. In the first part of my talk, I will discuss the glass-like slow dynamics in such systems and present our theoretical work to describe it. In the second part, I will talk about the static properties: the cell shape variability in a confluent epithelial monolayer becomes universal. I will discuss its origin via a mean-field analytical theory.

***Wednesday, Apr 20<sup>th</sup> 2022***

***4:00 PM***