



WORKSHOP ON THE PHYSICS OF ACTIVE LIVING MATTER

OCTOBER 28-29, 2024

VENUE: Room 21, 2nd Floor, VMCC, IIT Bombay

DESCRIPTION

This workshop will explore recent developments in the physics of active living matter and other related biological systems. The term "active matter" is associated with natural systems that consume energy from their surroundings and convert it to mechanical work. All living organisms and their functional units, the cells and the intracellular organelles, qualify as active matter. Often, collection of such active entities interact and give rise to very nontrivial emergent behavior. For example, growth of bacteria colony or development of tissues comprising many cells. Researchers have also built artificial active systems like functionalized molecules and even robots in order to understand their self organized structural patterns and collective motion.

SPEAKERS

Julia Yeomans (Oxford University)
Abhishek Chaudhuri (IISER Mohali)
Sekhar Burada (IIT Kharagpur)
Shradha Mishra (IIT BHU)

From IIT Bombay

Debjani Paul (BSBE)
Sabyasachi Mukherjee (Phys)
Sayantan Dutta (Chem Eng)
Sunita Srivastava (Phys)
Rajarshi Chakrabarti (Chem)
Dibyendu Das (Phys)
Roop Mallik (BSBE)
Mithun Mitra (Phys)

Vijit Ganguly (Phys)
Mandar Inamdar (Civil Eng)
Raghunath Chelakkot (Phys)
Sandip Kar (Chem)
Amitabha Nandi (Phys)
Punit Parmananda (Phys)
Nitin Kumar (Phys)
Ranjith Padinhateeri (BSBE)

REGISTRATION

LAST DATE: 24TH OCT, 2024

Interested PhD students, postdocs and faculty are encouraged to register. A maximum of 25 Post-docs & PhD students will be selected to register; however, all are welcome to attend the talks.



Web-links for registration & schedule are given below.

Registration: <https://docs.google.com/forms/d/17IKuJCST8FQ-Gm0Oo7E6ZXzAUbpoBH9FR376tJgHnA4/edit>

Schedule: <https://docs.google.com/document/d/1yuitilTvJxw2fqY7IGWK9mg-v-L52MKI/edit>

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