

# Biological and Soft Matter Group Meeting

Wednesday at 15:00 in Chloroplast (S-03), NCBS

Last updated: 15<sup>th</sup> December 2017

## Monsoon Term, 2017

07 Jun *	Hridesh Kedia (University of Chicago)	On the Construction and Dynamics of Knotted Fields
05 Jul	Raj Ladher	Ciliated Mechanoreceptors of the Inner Ear
19 Jul	Jemseena V. Anupam Singh	<i>Journal Club:</i> <ul style="list-style-type: none"> <li>■ Model of Cell Crawling Controlled by Mechanosensitive Adhesion <a href="https://doi.org/10.1103/PhysRevLett.118.228101">[doi:10.1103/PhysRevLett.118.228101]</a></li> <li>■ Programming Molecular Self-assembly of Intrinsically Disordered Proteins <a href="https://doi.org/10.1038/nchem.2715">[doi:10.1038/nchem.2715]</a></li> </ul>
26 Jul	Krishnan Iyer	Active Phase Transitions in Chromatin Organization
16 Aug	Richard Morris	<i>Journal Club:</i> <ul style="list-style-type: none"> <li>■ Organ Sculpting by Patterned Extracellular Matrix Stiffness <a href="https://doi.org/10.7554/eLife.24958">[doi:10.7554/eLife.24958]</a></li> </ul>
30 Aug *	Alexandre Lazarescu (Université du Luxembourg)	Analytical Methods for Extreme Fluctuations in Generalised Exclusion Processes
06 Sep *	Thibaut Lagny (Institut Curie – Paris)	Myosin1 & EphB2 – Functional Coupling Between a Non-processive Motor Protein and a Receptor
13 Sep *	Robert Jack (University of Cambridge)	Large Deviations and Rare Events in the Statistical Mechanics of Soft Matter
20 Sep *	Debarghya Banerjee (Leiden University)	Odd Viscosity in Active Chiral Flows
27 Sep	Amit Kumar Krishnan Iyer	<i>Journal Club:</i> <ul style="list-style-type: none"> <li>■ Continuous versus Arrested Spreading of Biofilms at Solid-Gas Interfaces: The Role of Surface Forces <a href="https://doi.org/10.1103/PhysRevLett.119.078003">[doi:10.1103/PhysRevLett.119.078003]</a></li> <li>■ Mechanobiological Induction of Long-range Contractility by Diffusing biomolecules and Size Scaling in Cell Assemblies <a href="https://doi.org/10.1038/srep27692">[doi:10.1038/srep27692]</a></li> </ul>

## Post-monsoon Term, 2017

11 Oct *	Rahul Dandekar (ICTP, Trieste)	Hierarchical Models of Hydrogen Bond Networks in Water
08 Nov	Suman Das Debsankar Banerjee	<i>Journal Club:</i> <ul style="list-style-type: none"> <li>■ Positional Information, in Bits <a href="https://doi.org/10.1073/pnas.1315642110">[doi:10.1073/pnas.1315642110]</a></li> <li>■ Chaotic Model for Lévy Walks in Swarming Bacteria <a href="https://doi.org/10.1103/PhysRevLett.118.228102">[doi:10.1103/PhysRevLett.118.228102]</a></li> </ul>
22 Nov	Debajit Goswami	TBC
29 Nov	Alex Rautu Raj Hosein	<i>Journal Club:</i> <ul style="list-style-type: none"> <li>■ Self-Driven Droplet Powered By Active Nematics <a href="https://doi.org/10.1103/PhysRevLett.119.108002">[doi:10.1103/PhysRevLett.119.108002]</a></li> <li>■ Endocytic Reawakening of Motility in Jammed Epithelia <a href="https://doi.org/10.1038/nmat4848">[doi:10.1038/nmat4848]</a></li> </ul>
06 Dec	Richard Morris	Shape changing Epithelial Monolayers
20 Dec *	Sabyasachi Dasgupta (University of Toronto)	Dynamics at cell-cell Interfaces of Epithelial Tissues

\* Invited speakers