

Random Excursions (Every Monday at 2:00 PM)

Next Talk	
Date	07/01/2018
Speaker	Arjun H.
Paper/Reference	<i>Noise, Diffusion, and Hyperuniformity</i> , D. Hexner and D. Levine, Phys. Rev. Lett. 118, 020601 (2017) [talk details]
Time	14:00
Venue	ARK Hall, IMSc (423)

Future Talks		
Date	Speaker	Paper/Reference
07/01/2018	Arjun H.	<i>Noise, Diffusion, and Hyperuniformity</i> , D. Hexner and D. Levine, Phys. Rev. Lett. 118, 020601 (2017) [talk details]
14/01/2018	Vani Vemparala	
21/12/2018	Pinaki Chaudhuri	
28/01/2019	R. Rajesh	

Past Talks and References		
Date	Speaker	Paper/Reference
26/11/2018	Amir Suhail	<i>Machine learning phases of matter</i> , J. Carrasquilla and R. G. Melko, Nat. Phys. 13, 431 (2017) [talk details]

19/11/2018	Gautam Menon	Physics of fizzy drinks
15/10/2018	Rahul Dandekar	<i>Edwards Field Theory of Granular Matter and Amorphous Solids</i> : References: E. DeGiuli, Phys. Rev. Lett. 121, 118001 (2018) , E. DeGiuli, Phys. Rev. E. 98, 033001 (2018) , S. Henkes and B. Chakraborty, Phys. Rev. E. 79, 061301 (2009) , D. Bi, S. Henkes, K. E. Daniels, and B. Chakraborty, Annu. Rev. Cond. Matt. Phys. 6, 63 (2015) [talk details]
10/09/2018	Bijoy Daga	<i>Jamming and Tiling in Aggregation of Rectangles</i> , D. S. Ben-Naim, E. Ben-Naim, and P. L. Krapivsky, arXiv:1808.03714 [talk details]
20/08/2018	Vinay Vaibhav	<i>Molecular dynamics simulations of thermal resistance at the liquid-solid interface</i> , B. H. Kim, A. Beskok, and T. Cagin, J. Chem. Phys. 129, 174701 (2008) [talk details]
13/08/2018	Garima Rani	<i>Requirements for contractility in disordered cytoskeletal bundles</i> , M. Lenz, M. L. Gardel, and A. R. Dinner, New J. Phys. 14, 033037 (2012) [talk details]
06/08/2018	Purusattam Ray	<i>Exploring the complex free-energy landscape of the simplest glass by rheology</i> , Y. Jin and H. Yoshino, Nature Commun. 8, 14935 (2017) [talk details]
30/07/2018	N. Vigneshwar	<i>Multiple singularities of the equilibrium free energy in a one-dimensional model of soft rods</i> , S. Saryal, J. U. Klamser, T. Sadhu, and D. Dhar, arXiv:1806.09841 [talk details]
23/07/2018	Sreekanth K Manikandan	<i>Exact results for the finite time thermodynamic uncertainty relation</i> , S. K. Manikandan and S. Krishnamurthy, J. Phys. A 51, 11LT01 [talk details]
09/07/2018	Kamal Tripathi	<i>A polymer in a crowded and confined space: effects of crowder size and poly-dispersity</i> , J. Kim, C. Jeon, H. Jeong, Y. Jung and B.-Y. Ha, Soft Matter 11, 1877 (2015) [talk details]
11/06/2018	Varun Madan Mohan	<i>Adsorption and Pattern Recognition of Polymers at Complex Surfaces with Attractive Stripelike Motifs</i> , M. Möddel, W. Janke, and M. Bachmann, Phys. Rev. Lett. 112, 148303 (2014) [talk details]

14/05/2018	Suman Dutta	<i>Gaussianity Fair: The Riddle of Anomalous yet Non-Gaussian Diffusion</i> , R. Metzler, Biophys. J., 112, 413 (2017) [talk details]
07/05/2018	Garima Rani	<i>The interplay of stiffness and force anisotropies drives embryo elongation</i> , T. T. K. Vuong-Brender, M. B. Amar, J. Pontabry and M. Labouesse, eLife 6, e23866 (2017) [talk details]
30/04/2018	R. Rajesh	<i>Bending transition in the penetration of a flexible intruder in a two-dimensional dense granular medium</i> , N. Algarra, P. G. Karagiannopoulos, A. Lazarus, D. Vandembroucq, and E. Kolb, Phys. Rev. E 97, 022901 (2018) [talk details]
23/04/2018	Amir Suhail	<i>Application of Machine learning to study phase transitions</i> , W. Hu, R. R. P. Singh, R. T. Scalettar., arXiv:1704.00080 [talk details]
02/04/2018	K. A. Chandrashekar	<i>Discriminatory proofreading regimes in nonequilibrium systems</i> , A. Murugan, D. Huse and S. Leibler., Phys. Rev. X 4, 021016 (2014) [talk details] [link to talk]
26/03/2018	Pinaki Chaudhuri	<i>Nonmonotonic Aging and Memory Retention in Disordered Mechanical Systems</i> , Y. Lahini, O. Gottesman, A. Amir, and S. M. Rubinstein., Phys. Rev. Lett. 118, 085501 (2017) [talk details]
19/03/2018	Vani Vemparala	<i>Emergent Strain Stiffening in Interlocked Granular Chains</i> , D. Dumont, M. Houze, P. Rambach, T. Salez, S. Patinet, and P. Damman., Phys. Rev. Lett. 120, 088001 (2018) [talk details]
12/03/2018	Rajesh Singh	<i>Gaussian Processes in Machine Learning</i> , C. E. Rasmussen., Advanced Lectures on Machine Learning [talk details]
05/03/2018	Garima Rani	<i>Fluidization of tissues by cell division and apoptosis</i> , J. Ranft et. al., Proc. Nat. Acad. Sc. 107, 20863 (2010) [talk details]
26/02/2018	Arjun H.	<i>A structural approach to relaxation in glassy liquids</i> , S. S. Schoenholz, E. D. Cubuk, D. M. Sussman, E. Kaxiras and A. J. Liu., Nat. Phys. 12, 469 (2016) [talk details]
12/02/2018	Vinay Vaibhav	<i>Response of Soft Continuous Structures and Topological Defects to a Temperature Gradient</i> , R.

		Kurita, S. Mitsui, and H. Tanaka, Phys. Rev. Lett. 119, 108003 (2017) [talk details]
22/01/2018	Anvy Moly Tom	<i>Polymer translocation through nanopores in vibrating thin membranes</i> , T. Menais, S. Mossa, and A. Buhot, Sci. Rep. 6, 38558 (2014) [talk details]
15/01/2018	Rahul Dandekar	<i>Hydrodynamics, density fluctuations and universality in conserved Manna sandpiles</i> , S. Chatterjee, A. Das, and P. Pradhan, arXiv:1711.03793 [talk details]
08/01/2018	Vani Vemparala	<i>Polymer collapse in miscible good solvents is a generic phenomenon driven by preferential adsorption</i> , D. Mukherji, C. M. Marques, and K. Kremer, Nat. Commun. 5, 4882 (2014) [talk details]
04/12/2017	N. Vigneshwar	<i>Vacancy stabilized crystalline order in hard cubes</i> , F. Smallenburg, L. Filion, M. Marechal and M. Dijkstra, Proc. Nat. Acad. Sc., 109, 17886 (2012) [talk details]
27/11/2017	Dipanjana Mandal	<i>Phase behaviour of hard board-like particles</i> , A. Cuetos, M. Dennison, A. Masters, and A. Patti, Soft Matter, 13, 4720 (2017) [talk details]
20/11/2017	Bijoy Daga	<i>Phase transitions in systems with aggregation and shattering</i> , P. L. Krapivsky, W. Otieno, and N. V. Brilliantov, Phys. Rev. E 96, 042138 (2017) [talk details]