## **Soft and Biological Matter**

## **TAU-ESPCI Paris Workshop**

## Pierre-Gilles de Gennes Institute

## **PROGRAM**

Monday, 6 <sup>th</sup>	<b>March 2017</b>
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•	,
08:45 - 09:00	Welcome
09:00 - 09:15	Workshop opening Jean-François Joanny (ESPCI) Haim Diamant (TAU)
09:15 – 09:45	Roy Beck-Barkai (TAU)  Making order out of disorder: why is the neuronal cell scaffold constructed with disordered building blocks?
09:45 – 10:15	Benoit Roman (ESPCI) Stamping, wrinkling and actuation of thin sheets
10:15 – 10:35	Coffee Break
10:35 – 11:05	Electrotunable Friction with Ionic
11:05 – 11:35	Liquid Nanoscale Films Olivier Dauchot (ESPCI) Active dynamics in model non
11:35 – 12:05	biological experimental systems  Michael Kozlov (TAU)  Modeling lipid droplets on curved membranes
12:15 – 13:45	Lunch (ESPGG)
14:00 – 14:30	Jean-François Joanny (ESPCI)  Bead transport by molecular motors on actin filaments
14:30 – 15:00	Roey Amir (TAU)  Disassembling polymeric micelles with
15:00 – 15:30	enzymes  Olivia du Roure (ESPCI)  Growth and mechanics of actin  networks
15:30 – 15:50	Coffee Break
15:50 – 16:20	Yair Shokef (TAU) Combinatorial design of textured
16:20 – 16:50	mechanical metamaterials Anthony Maggs (ESPCI) Statistical mechanics with Maxwell's

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09:15 – 09:45	Haim Diamant (TAU) Screening, instability, and hyperuniformity in the sedimentation of
09:45 – 10:15	irregular objects  Elie Raphaël (ESPCI)  Dynamical properties of thin polymer films
10:15 - 10:35	Coffee Break
10:35 – 11:05	Shlomi Reuveni (TAU) First passage under restart
11:05 – 11:35	Ludwik Leibler (ESPCI)  Principles of vitrimer physics and chemistry
11:35 – 12:05	Eran Pelrson (TAU)

	chemistry
11:35 – 12:05	Eran Pelrson (TAU)
	Molecular Communication Mechanisms of Neuron
12:15 - 13:45	Lunch (ESPGG)

14:00 - 14:30	Eric Clément (ESPCI)
	Bacterial suspensions: A living example
	of active fluid
14:30 – 15:00	Yael Roichman (TAU)
	Discrete motor driven active event in

15:00 – 15:30	acto-myosin networks Anke Lindner (ESPCI)
	Transport dynamics of complex

	Transport dynamics of complex particles in microfluidic flows
15:30 - 15:50	Coffee Break

15:50 - 16:20	Yoav Lahini (TAU)
	Memory retention in disordered
	mechanical systems
16:20 – 16:50	Clément Nizak (ESPCI)
	An experimental approach to statistic

	An experimental approach to statistical
	molecular evolution
16:50 – 17:10	Closing remarks and discussion



equations





