Soft Matter Science and Beyond: From Inert to Living Matter

Benasque, Spain June 3rd - June 7th 2025

			Julie Sid - Julie 7 til 2025		
Tuesday 3rd		Wednesday 4th	Thursday 5th	Friday 6th	Saturday 7th
	8h30-9h	Registration			
	9h-9h40	Isabelle CANTAT	David WEITZ	Itaï COHEN	Bus trip to Barcelona airport
	9h40-10h20	Paul CHAIKIN	Thomas SALEZ	Annie COLIN	9h
	10h20-10h40	coffee break	coffee break	coffee break	
	10h40-11h20	Zvonimir DOGIC	Jasna BRUJIC	Dave PINE	
	11h20-12h	Renaud NICOLAŸ	Erez BRAUN	Jan VERMANT	
Bus trip from Barcelona airport 15h30	12h-16h	Lunch and Discussions	Lunch and Discussions	Lunch and Discussions	
	16h-16h40	Fred MACKINTOSH	Valérie RAVAINE	Véronique SCHMITT	
	16h40-17h20	Eric VANDEN-EIJNDEN	Demian LEVIS	Shmuel RUBINSTEIN	
17h20-17h40 17h40-18h10 18h10-18h40 18h40-19h10 19h30-22h		coffee break	coffee break	coffee break	
		Rémi DREYFUS	Jean BAUDRY	Stefano AIME	
		Laura ARRIAGA	Miguel RUIZ-GARCIA	Andrew GRIFFITHS	
		Nicolas BREMOND	Jacques FATTACCIOLI	Patrick TABELING	
		Conference Diner (at conference center)			

Stefano	AIME	Rheofluidics: Single-drop Oscillatory Rheology with Microfluidics	
Laura	ARRIAGA	How Fluid Membranes Mediate Force Transduction in Vesicle Motion	
Jean	BAUDRY	Evolution of Bacterial Communities	
Erez	BRAUN	Biology Meets Physics: The Morphological Potential Underlying Hydra Regeneration	
Nicolas	BREMOND	Confined Emulsification	
Jasna	BRUJIC	Logical Operations Using Droplets	
Isabelle	CANTAT	Flows in Soap Films	
Paul	CHAIKIN	Toward Artificial Life with Competition and Evolution	
Itai	COHEN	Highly Tunable and Active Soft Matter: from Cartilage to Viscosity Metamaterials	
Annie	COLIN	Rheology of Non Brownian Particles	
Zvonimir	DOGIC	Dynamics and Mechanics of Shape-shifting Filaments	
Remi	DREYFUS	Engineering Colloids for Accumulating and Sensing	
Jacques	FATTACCIOLI	Mechanical Characterization of Uptake during Phagocytosis using Functional Lipid Droplets	
Andrew	GRIFFITHS	Can Darwinian simple physochemical systems based on compartmentalised autocatalytic reactions evolve?	
Demian	LEVIS	Phase Separation in Driven and Active Model Systems	
Fred	MACKINTOSH	Mechanical Phase Transitions and the Rheology of Extracellular Matrices	
Renaud	NICOLAŸ	Dynamic Covalent Chemistry and Phase Separation for the Design of Stimulable Materials	
Dave	PINE	Self-assembly of Colloidal Diamond Using the Depletion Interaction (no DNA needed)	
Valérie	RAVAINE	Emulsions Stabilized by Responsive Microgels	
Shmuel	RUBINSTEIN	Catastrophic Failure in Defect-Sensitive Shells	
Miguel	RUIZ-GARCIA	Fluidic Metamaterials: Collective Phenomena in Nonlinear Flow Networks	
Thomas	SALEZ	Brownian Motion Near Soft Interfaces	
Véronique	SCHMITT	Pickering Emulsions Stabilized by Stimuli-responsive Dextran-based Nanoparticles	
Patrick	TABELING	Rethinking the Physics of Wetting	
Eric	VANDEN-EIJNDEN	Generative Modeling with Flows and Diffusions	
Jan	VERMANT	Rough and Nonspherical Building Blocks in Colloidal Gels : Effects of Non Central Forces	
David	WEITZ		