

Soft Matter Physics

1 st Week Structured Rheology (9-13)

2nd Week Biomembrane and Vesicles (23-27)

Lectures (Monday): 1. Physics of membrane,
2. Minimal Biomimetic model vesicle, 3. Architecture and Function

Topics we discussed:

1. Self-Reproduction of vesicles, Fission and Fusion
2. Phase Diagram of Multi-component Membrane
3. Pore Formation in Vesicles, Dynamics and Equilibrium
4. Coarse-grained Molecular Dynamics of Vesicles
5. Control of phase separated pattern
involving polymerized and un-polymerized membrane
6. Membrane Dynamics (Hydrodynamics)
7. PH response dynamics of bio-membrane.
8. Hydrodynamic effect on Membrane and Vesicle dynamics
9. Hybrid Method (Field + Molecule) for membrane

...

and so on.

ISSP International Workshop on

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Support (Financial + Others):

ICAM-I2CAM (The Institute for Complex Adaptive Matter)

ISSP : Institute for **S**olid (**S**oft ?) **S**tate **P**hysics

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Thanks to All the participants