

Notes from Topical Session on Frontiers in Biological and Soft Matter Physics

Matthew Turner's presentation gave a brief overview of the topic and various areas, which are currently under rapid development. Discussion focused mostly on identifying aspects, which could be of interest to other sub-groups in the Network.

1. Systems/Techniques/Interests

- physics heading towards equilibrium from an initial state far from equilibrium ? e.g. protein folding, self-assembly
- city power laws, spatial arrangements; geography, topological techniques (2D systems, synergy with swarms?)
- systems biology, genetic networks (software exists for road, crowd modelling)
- entropy production in life; evolution (speculative?)
- physical biology
- temperature gradient driven phenomena

2. Meetings

- Active matter meets interacting particle/social systems
- Classical/quantum overlap in physics out of or heading towards equilibrium
- 2D city/social/swarms/crowds meeting
 - joint meeting with physics of life?