

INVITED SPEAKER

CUT OFF THE DROP IN HALF: HOW TO MODEL SELF-ASSEMBLY AND SELF-ORGANISATION IN BACTERIAL DNA ACTIVE SEGREGATION.

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In this talk, I will present how general concepts from statistical and non-linear physics of phase transitions can be employed to describe the stability of protein-DNA non-compartmentalized assemblies and their active segregation in bacteria. I will consider the ParABS bacterial partition system as model of study and compare theoretical knowledge with experimental data issued from super-resolution microscopy and Chip-Seq experiments.