

ASC school on the Physics of life

Lecture room: B051 Theresienstrasse 39 LMU Munich

Coffee breaks in ASC lounge (room A446-447)

WIFI: mwn-events

Username: phys-2019107

Password: vs9bavz1

Monday October 7

08:45-09:00 Registration in room B051

09:00-10:30 **David Nelson: Spatial population genetics** (1/3)

10:30-11:00 Coffee break

11:00-12:30 **Ariel Amir: Statistical mechanics approaches for studying microbial growth** (1/3)

12:30-14:30 Lunch break

14:30-16:00 **Stephan Grill: 1D Active Matter** (1/3)

16:00-16:30 Coffee break

16:30-17:30 *Seminar talk: Petra Schwille* – Protein self-organization in cell division

Tuesday October 8

09:00-10:30 **Stephan Grill: 1D Active Matter** (2/3)

10:30-11:00 Coffee break

11:00-12:30 **Julien Tailleur: Motility-induced phase separation and pattern formation** (1/3)

12:30-14:30 Lunch break

14:30-15:30 **Stephan Grill: Guided Mechanochemical Pattern Formation** (3/3)

15:30-16:00 Coffee break

16:00-19:00 Poster session and discussions

Wednesday October 9

09:00-10:30 **Gasper Tkacik: Information theory and optimality in biological networks** (1/3)

10:30-11:00 Coffee break

11:00-12:00 *Seminar talk: Joachim Rädler* - Cell migration on microstructured surfaces:
From single cell to collective behavior

12:00-14:00 Lunch break

14:00-15:30 **Julien Tailleur: Motility-induced phase separation and pattern formation** (2/3)

15:30-16:00 Coffee break

16:00-17:30 **Ariel Amir: Statistical mechanics approaches for studying microbial growth** (2/3)

Wednesday evening 18:30 - Group Dinner at the Max-Emanuel Brauerei

Thursday October 10

09:00-10:30 **Gasper Tkacik: Information theory and optimality in biological networks** (2/3)

10:30-11:00 Coffee break

11:00-12:30 **Ariel Amir: Statistical mechanics approaches for studying microbial growth** (3/3)

12:30-14:30 Lunch break

14:30-16:00 **Julien Tailleur: Motility-induced phase separation and pattern formation** (3/3)

16:00-16:30 Coffee break

16:30-18:00 **David Nelson: Spatial population genetics** (2/3)

Friday October 11

09:00-10:00 *Seminar talk: Karen Alim* - Fluid flows shaping morphology

10:00-10:30 Coffee break

10:30-12:00 **Gasper Tkacik: Information theory and optimality in biological networks** (3/3)

12:00-13:30 Lunch break – lunch buffet provided

13:30-15:00 **David Nelson: Spatial population genetics** (3/3)