

# Seminar of SFB 910

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## Gil Ariel

Bar-Ilan University, Israel

### “A statistical physics view of swarming bacteria”

Bacterial swarming is a collective mode of motion in which cells migrate rapidly over surfaces, forming dynamic patterns of whirls and jets. The talk will present a physical point of view of swarming bacteria, with an emphasis on the statistical properties of the swarm dynamics as observed in experiments. The basic physical principles underlying the swarm and their relation to contemporary theories of collective motion and active matter are reviewed and discussed in the context of the biological properties of swarming cells.

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**Wednesday, 03.07.19 · 16:15h · EW 731**

Prof. Dr. Markus Bär  
Prof. Dr. Sabine Klapp

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