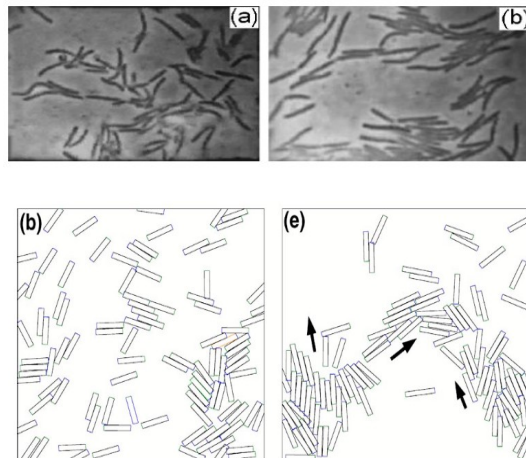


INVITATION TO SEMINAR IN MATHEMATICAL BIOLOGY
(SUMMER TERM 2015)

MATHEMATICS OF COLLECTIVE CELL MIGRATION



PERUANI, DEUTSCH, BÄR, PHYS. REV. E, 2006

OBJECTIVE

There are intriguing similarities between the flocking behavior of animals and the collective motion of large groups of cells. Collective cell migration plays a key role in biological development, regeneration, wound healing and tumor invasion and can be analyzed by means of mathematical models. The main focus of the seminar is the introduction of mathematical models addressing key problems from collective motion and swarming. By means of talks presented by the seminar participants mathematical models and methods to understand particular problems and questions are introduced. The seminar is intended for undergraduate and graduate students in mathematics, biology, medicine, and computer science who are interested in the highly interdisciplinary research area of mathematical biology.

TIME

Seminar: on **4 Friday** afternoons **14.00-17.00: see website for dates**

Kickoff Meeting and distribution of talks: **April 27 (Monday!), 14.00-15.00**

LOCATION

Room APB 1096, Computer Science Dept. of TU Dresden at Nöthnitzer Str. 46

ORGANIZERS

Walter de Back, Thomas Buder, Jörn Starruß, Anja Voss-Böhme, Andreas Deutsch (ZIH, TU Dresden)

SEMINAR WEBSITE

<http://www.tu-dresden.de/zih/lehre/bio/>

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