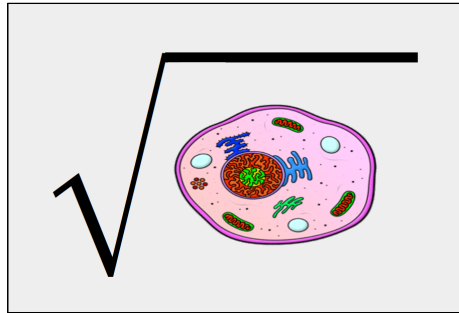# INVITATION TO SEMINAR (SoSe 2017)

TRENDS AND METHODS IN MATHEMATICAL BIOLOGY

OBJECTIVE

Mathematical biology is an interdisciplinary scientific research field aiming at the mathematical representation, modeling and analysis of biological processes. It provides both theoretical understanding and practical assistance in biological, biomedical and biotechnology research. Describing systems in a quantitative manner means, for instance, that their behavior can be numerically simulated such that properties can be predicted that might not be evident to the experimentalist. This requires effective mathematical models and analytic methods.

The seminar is focused on the introduction of present-day mathematical models and analytic methods addressing key problems in contemporary biology, especially in the field of spatial organization of cells and tissues. The final seminar program results from the kickoff meeting.
The seminar is intended for undergraduate/graduate students and researchers in mathematics, physics, biology, medicine, and computer science who are interested in this highly interdisciplinary research area.

Time and location

The seminar will take place on 4 Wednesday afternoons, **14.00-17.00**:
May 10, May 17 (13.00-16.00), **June 14, June 21**
Location: APB-1096, Computer Science Dept. of TU Dresden at Nöthnitzer Str. 46

Kickoff meeting and distribution of talks

April 26, 14.00-15.00, APB-1096

Organizers

Thomas Buder, Anja Voß-Böhme, Fakultät Informatik/Mathematik, HTW Dresden
Lutz Brusch, Andreas Deutsch, ZIH, TU Dresden

Seminar website

https://tu-dresden.de/ing/informatik/ti/professur-fuer-rechnerarchitektur/studium/
lehrveranstaltungen/seminare-praktika-forschungsprojekte/mathematical-biology/ss17_sem

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