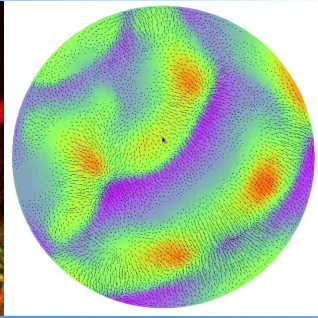
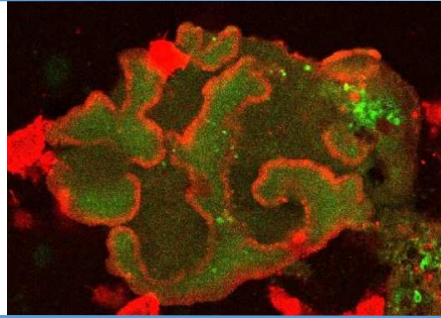
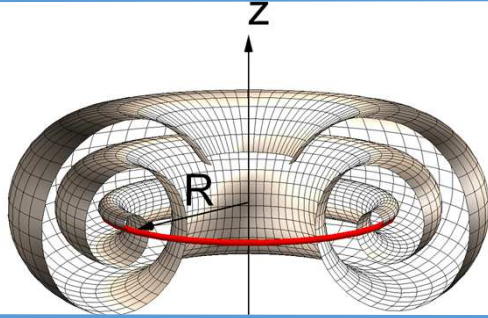
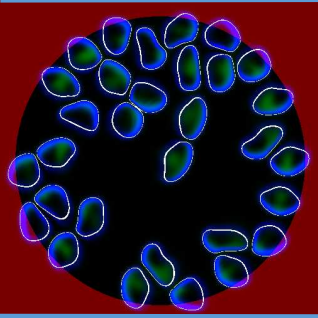


Physikzentrum Bad Honnef, Germany, February 22-27, 2015

**Aim of the physics school:**

The objective of this International WE Heraeus Physics School is to familiarize students with the use of model systems for understanding biological processes. To achieve this goal, the school will combine introductory lectures with examples of how such approaches are applied to current scientific problems in different fields.

Topics include:

- coupled oscillators and synchronization
- excitable media and noise
- active particles
- cellular motility
- molecular machines

Invited speakers:

Igor Aranson (Argonne National Laboratory, USA)
 Markus Bär (Physikalisch-Technische Bundesanstalt, Berlin)
 Martin Falcke (Max-Delbrück-Centrum, Berlin)
 Albert Goldbeter (Université Libre de Bruxelles, Belgium)
 Markus Hauser (Otto-von-Guericke-Universität Magdeburg)
 Hanspeter Herzel (Humboldt-Universität zu Berlin)
 Stefan Klumpp (MPI of Colloids and Interfaces)
 Katharina Krischer (Technische Universität München)
 Karsten Kruse (Universität des Saarlandes)
 Alexander Mikhailov (Fritz-Haber-Institut der MPG, Berlin)
 Arkadi Pikovski (Universität Potsdam)
 Wouter-Jan Rappel (UC San Diego, USA)
 Lutz Schimansky-Geier (Humboldt-Universität zu Berlin)
 Tatsuo Shibata (RIKEN Kobe Institute, Japan)
 Holger Stark (Technische Universität Berlin)

Organizers:

Carsten Beta (Universität Potsdam), Harald Engel (Technische Universität Berlin), Kenneth Showalter (West Virginia University)

The school addresses primarily PhD and masters students from physics that work on topics directly at the interface to biology. Also students from biology, chemistry, or mathematics can participate if they come with a sufficient physical and mathematical background. For information on how to apply please consult the conference web page http://www.bio.physik.uni-potsdam.de/heraeus_school_index.html.

Each participant is expected to present a poster. A limited number of poster presentations will be selected for short talks.

Deadline for registration and abstract submission is **December 13, 2014**.