

# Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

## Physics of Bacteria

August 4 - 9, 2019, Physikzentrum Bad Honnef, Germany

Organised by

Ulrich Gerland (Technical University of Munich)

**For PhD and Master Students**

### Speakers and Topics

Rosalind Allen (University of Edinburgh)  
- Models for bacterial physiology

Ariel Amir (Harvard)  
- Single-cell growth laws / cell cycle

Markus Basan (Harvard Med. School)  
- Metabolism & Physiology

Ilka Bischofs (Univ. Heidelberg)  
- Sporulation

Tobias Bollenbach (Univ. zu Köln)  
- Antibiotic stress and resistance

Marc Bramkamp (LMU München)  
- Introduction to Bacteriology

Knut Drescher (MPI Marburg)  
- Advanced imaging and image analysis

Robert Endres (Imperial College London)  
- Signaling and regulation

Erwin Frey (LMU München)  
- Pattern formation & Intracellular positioning systems

Ethan Garner (Harvard)  
- Establishment and maintenance of cell shape

Ulrich Gerland (TU München)  
- Growth transitions, starvation & bacterial fitness

Oskar Hallatschek (University of California at Berkeley)  
- Evolutionary dynamics

Stephan Klumpp (Univ. Göttingen)  
- Gene expression

Berenike Maier (Univ. zu Köln)  
- Physics of bacterial colonies

Peter Swain (University of Edinburgh)  
- Intracellular representation of extracellular information

Sven van Teeffelen (Pasteur Institute, Paris)  
- Mechanics of the cell envelope & Intracellular crowding

#### Fees:

Covering full board and lodging at the Physikzentrum Bad Honnef  
200 € (for DPG members 100 €).

Application & more information: [www.pbh.de](http://www.pbh.de)



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