Highlights

- **Dr. Petr Dementyev granted with Liebig-Stipendium**

![Dr. Petr Dementyev](image)

- "**Wie schnell expandiert das Weltall?**" Prof. Dominik Schwarz schreibt in Spektrum der Wissenschaft (German)

- **Physicist Mark Schüttpelz receives Tycho-Jæger Prize**

![Physicist Mark Schüttpelz](image)

- **Gender Professorship at Faculty of Physics and BINAS since SS2018**
• Largest molecular spin found close to a quantum phase transition

• DFG Research Unit 2692 Fundamental Aspects of Statistical Mechanics and the Emergence of Thermodynamics in Non-Equilibrium Systems funded
• Healthy aging: New EU project on the human liver

• Spin current from heat: new material increases efficiency

• Dancing electrons loose the race

• Collaborative Research Center TransRegio of the Theoretical High Energy Physics Group in collaboration with University Frankfurt and TU Darmstadt funded
• Healthy aging: New EU project on the human liver - Bielefeld University to coordinate programme with partners from nine countries.

• Chip-based nanoscopy: Microscopy in HD quality - New invention at Bielefeld University and the University of Tromsø (Norway)

• Optical tractor beam traps bacteria-Physicists from Bielefeld University report on new methods in ‘Nature Communications’
• **Physicists find new explanation for key experiment** - Researchers at Bielefeld University publish findings on spin caloritronics and are the first to apply measurement methods in the field

![Image](image1)

• **Hot electrons point the way to perfect light absorption** - Physicists study how to achieve perfect absorption of light with the help of rough ultrathin films

![Image](image2)

• **Filtering pollutants with nanomembranes** - Bielefeld University participating in two European research networks

![Image](image3)

• **Cooling with molecules** - Researchers at the universities in Bielefeld, Manchester, and Zaragoza present low-temperature experiment in Nature Communications

![Image](image4)