Highlights

- Physicist Mark Schüttepeltz receives Tycho-Jæger Prize

- 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**

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

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