

DPG - School on Physics

supported by the Wilhelm und Else Heraeus-Foundation

Single Molecule Spectroscopy

18 - 23 September 2011, Physikzentrum Bad Honnef, Germany

Jürgen Köhler and Matthias Weiss (both University Bayreuth)

Lectures:

Thomas Basché
Carlos Bustamante
Hermann E. Gaub
Enrico Gratton
Jürgen Köhler
W.E. Moerner
Antoine van Oijen
Michael Orrit
Thomas Schmidt
Vahid Sandoghdar
C. Schultz
Paul R. Selvin
Matthias Weiss

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About 150 years after Ernst Mach's famous statement "Atoms and molecules..., did you ever see one?", imaging of single molecules and determining their physico-chemical properties has become a state-of-the-art approach in many laboratories. A variety of techniques that have been developed over the last 20 years allow one to accurately measure positions and conformations of single molecules as well as the associated forces. Single-molecule approaches have been applied not only in solid-state physics and chemistry, but also in the context of biological specimen. This DPG School is intended to give insights to young researchers into the field of single molecule detection and single molecule spectroscopy. The lectures will range from basic concepts to current research topics, and they will be presented by renowned experts in the field.

Fees:

Covering full board and lodging at the Physikzentrum Bad Honnef
475 € (for DPG members 375 €)
for students 315 € (for DPG members 215 €)
without lodging 210 €.



Application & more information:

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