

DPG School on Physics

supported by the Wilhelm and Else Heraeus-Foundation

Innovative Concepts in Photovoltaics

22 – 27 September, 2013, Physikzentrum Bad Honnef, Germany

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Confirmed Speakers:

- Prof. Dr. Julien Bachmann (University of Erlangen)
- Dr. Holger Borchert (University of Oldenburg)
- Dr. Carsten Deibel (University of Würzburg)
- Dr. Nikolai Gaponik (TU Dresden)
- Dr. Harald Hoppe (TU Ilmenau)
- Prof. Dr. Christian Klinke (University of Hamburg)
- Dr. Jan Anton Koster (University of Groningen)
- Dr. Michael Krüger (University of Freiburg)
- Dr. Frederic Laquai (MPI for Polymer Research, Mainz)
- Prof. Dr. Sabine Ludwigs (University of Stuttgart)
- Prof. Dr. Elisabeth von Hauff (University of Freiburg)

In view of the world-wide growing energy demand and the limited resources of fossil fuels, immense research efforts are currently pushed into the development and improvement of technologies for renewable energy. An important branch among the different types of renewable energy sources is photovoltaics (PV). At present, the major part of the installed PV power is still based on crystalline silicon, but there are also many innovative concepts for other PV technologies, among them organic solar cells based on conductive polymer and solar cells based on semiconductor quantum dots. Although these new technologies do not reach yet the high efficiencies of crystalline silicon, they are nevertheless highly promising, for example because materials for organic or quantum dot-based solar cells can be processed from solution, which potentially enables the use of cost-efficient production processes like spraying or printing. Research on the mentioned new PV technologies is rapidly developing and has an interdisciplinary character, because many of these solar cell concepts rely on the fundamentals of physics, chemistry and materials science. This makes it challenging for scientists and engineers to have a strong background in all relevant fields.

In this context, the aim of the DPG school on innovative concepts in photovoltaics is to bring together experts from different fields with complementary experience and thus to provide an ideal platform for students to get a deep introduction into the topic.

Fees:

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



Physikzentrum Bad Honnef

Application & more information:

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