

# Advanced DPG Physics School

supported by the Wilhelm and Else Heraeus-Foundation

## Inflation and CMB

7 – 12 July, 2013, Physikzentrum Bad Honnef, Germany

Viatcheslav Mukhanov (LMU Munich) and Stefan Hofmann (LMU Munich)

### Lectures:

**Peter Coles** (Cardiff University)

**Joanna Dunkley** (Oxford University)

**Renata Kalosh** (Stanford University, USA)

**Andrei Linde** (Stanford University, USA)

**Pavel Naselsky** (Nils Bohr Institute, Kopenhagen)

**Paolo Natoli** (Roma University 2)

**Patrick Peter** (Institute of Astrophysics, Paris)

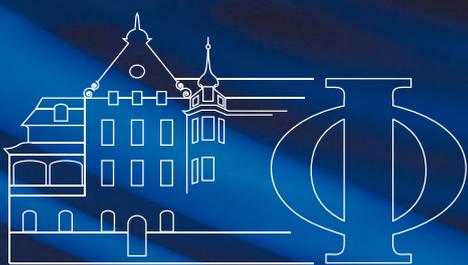
**Misao Sasaki** (Yukawa Institute, Kyoto)

**Jochen Weller** (LMU Munich)

The Advanced DPG School on Inflation and CMB covers the formation and evolution of cosmic structure from its microscopic origin during an inflationary stage to the epoch when our Universe became transparent for photons and beyond. It will be shown that the relic radiation from this epoch encodes all relevant information about our Universe's geometry and energy budget, and how these key features can be extracted with high precision. The physics underlying the cosmic microwave background will be explained in great detail, as well as the observations dedicated to its exploration, resulting in a comprehensive presentation of high-precision cosmology. Finally, future probes for cosmic structure formation on large scales will be considered and their prospects evaluated.

### Fees:

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



Physikzentrum Bad Honnef

Application & more information:

[www.pbh.de](http://www.pbh.de)

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