

# 20th 'Saalburg' Summer School

## FOUNDATIONS AND NEW METHODS IN THEORETICAL PHYSICS

01 – 12 September, 2014  
Wolfersdorf, Thüringen



This school gives up to 35 PhD students of theoretical physics the opportunity of becoming familiar with a selection of modern aspects and methods in theoretical and mathematical physics. Basic knowledge of quantum field theory, general relativity and group theory is assumed. Lectures and exercises will be conducted on:

<b>Tools for supersymmetry</b>	<b>A. Van Proeyen</b>	Katholieke Universiteit Leuven
<b>Theory of cosmological perturbations</b>	<b>M. Sasaki</b>	Yukawa Institute, Kyoto University
<b>Lattice gauge theory</b>	<b>C. Gattringer</b>	Karl-Franzens-Universität Graz
<b>Constrained dynamics</b>	<b>K. Sundermeyer</b>	Freie Universität Berlin
<b>Introduction to gauge-gravity duality</b>	<b>G. Semenoff</b>	University of British Columbia, Vancouver

For electronic application and further information please go to

<http://www.itp.uni-hannover.de/saalburg>

The deadline is 30 June, and further instructions (list of participants, suggested literature) will appear starting July. Participants cover their travel and a school fee of 150 Euro; lodging and food (without drinks) are provided by the school. In 2002, the school's location moved from Saalburg to the hotel *Am Kellerberg* in the village of *Trockenborn-Wolfersdorf*, about 20 km southeast of Jena in the foothills of the Thüringer Wald.

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