

# 17th 'Saalburg' Summer School

## FOUNDATIONS AND NEW METHODS IN THEORETICAL PHYSICS

29 August – 09 September, 2011  
Wolfersdorf, Thüringen



This school gives up to 30 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>Conformal field theory</b>	<b>C. Römelberger</b>	Universität München
<b>Non-perturbative aspects of gauge theories</b>	<b>L. von Smekal</b>	Universität Darmstadt
<b>Spontaneous symmetry breaking</b>	<b>A. Manohar</b>	UC San Diego
<b>Entanglement entropy in quantum field theory</b>	<b>J. Cardy</b>	Oxford University
<b>Quantum information</b>	<b>R. Werner</b>	Universität Hannover

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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Sponsored by the cluster of excellence EXC 201 'Quantum Engineering and Space-Time Research'

