

21st 'Saalburg' Summer School
**FOUNDATIONS AND NEW METHODS
IN THEORETICAL PHYSICS**

31 August – 11 September, 2015
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:

Conformal field theory	A.N. Schellekens	Nikhef Amsterdam
Black hole thermodynamics	R. Wald	University of Chicago
Renormalization group: an introduction	J. Zinn-Justin	CEA, IRFU and Centre de Saclay
Quantum fields in curved spacetime	S. Hollands	Universität Leipzig
Dynamical space-time and gravitational waves	J.W. van Holten	Nikhef Amsterdam & Univ. Leiden

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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