

16th 'Saalburg' Summer School

FOUNDATIONS AND NEW METHODS IN THEORETICAL PHYSICS

30 August – 10 September, 2010
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 their field. Basic knowledge of quantum field theory, general relativity and group theory is assumed. Both lectures and exercises will be conducted on the following topics:

Introduction to anomalies	L. Alvarez-Gaumé	CERN Genève
Canonical gravity	D. Giulini	Universität Hannover
Functional renormalization group	J. Pawłowski	Universität Heidelberg
Scattering amplitudes	J. Henn	Humboldt-Universität zu Berlin
Trace anomaly and macroscopic gravitation	E. Mottola	Los Alamos National Laboratory

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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