

# 30th ‘Saalburg’ Summer School

## FOUNDATIONS AND NEW METHODS IN THEORETICAL PHYSICS

02–13 September, 2024  
Bayrischzell, Bayern



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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>Foundations and applications of effective field theories</b>	<b>M. Beneke</b>	TU München
<b>The conformal bootstrap approach</b>	<b>A. Bissi</b>	Uppsala Univ. & ICTP Trieste
<b>Anomalies – a modern perspective</b>	<b>J. Davighi</b>	CERN Genève
<b>Generalized symmetries and gauge theory phases</b>	<b>T. Dumitrescu</b>	UCLA
<b>Infinite-dimensional symmetries</b>	<b>H. Nicolai</b>	AEI Potsdam

For electronic application and further information please go to

<https://saalburg.aei.mpg.de/>

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 300 Euro; lodging and food (without drinks) are provided by the school. In 2002, the school moved from Saalburg to the village of Trockenborn-Wolfersdorf, in 2018 it relocated to Heigenbrücken in the Spessart mountains. Since 2022, it takes place in the Bavarian Alps.

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