

29th ‘Saalburg’ Summer School

FOUNDATIONS AND NEW METHODS IN THEORETICAL PHYSICS

04–15 September, 2023
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:

Amplitudes meets cosmology	P. Benincasa	MPI für Physik, München
Quantum gravity	R. Loll	Radboud Universiteit Nijmegen
Swampland: quantum gravity constraints at low energies	M. Montero	Harvard University & IFT Madrid
Classical black hole scattering from quantum field theory	J. Plefka	Humboldt-Universität zu Berlin
Asymptotic symmetries and flat space holography	A.-M. Raclariu	Universiteit van Amsterdam

For electronic application and further information please go to

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

The deadline is 15 July, and further instructions (list of participants, suggested literature) will appear starting August. 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.

Laura Covi
Göttingen

Arthur Hebecker
Heidelberg

Olaf Lechtenfeld
Hannover

Ivo Sachs
München

Stefan Theisen
Potsdam

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