

Ilka Brunner (LMU München)
Nils Carqueville (Universität Wien)
Hans Jockers (JGU Mainz)
Peter Mayr (LMU München)
Simone Noja (Universität Heidelberg)
Ivo Sachs (LMU München)
Johannes Walcher (Universität Heidelberg)

JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



RIND seminar on Mathematical Physics and String Theory

July 18, 2022 at 4 p.m. c.t.
Heidelberg

Joint seminar series on Mathematical Physics and String Theory

Hossein Movasati
IMPA, Brasil

Modular and automorphic forms & beyond

I will talk on a project which aims to develop a unified theory of modular and automorphic forms. It encompasses most of the available theory of modular forms in the literature, such as those for congruence groups, Siegel and Hilbert modular forms, many types of automorphic forms on Hermitian symmetric domains, Calabi-Yau modular forms, with its examples such as Yukawa couplings and topological string partition functions, and even go beyond all these cases. Its main ingredient is the so-called 'Gauss-Manin connection in disguise'. The talk is based on the author's book with the same title, available in my webpage.

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