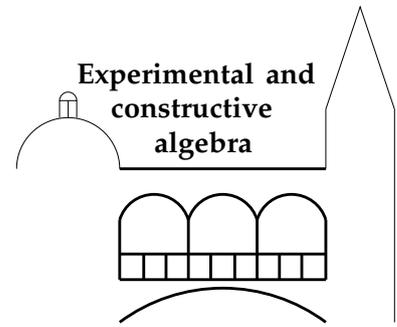


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Dienstag, 17. Juli 2018, 14:00 Uhr, Hörsaal V

ANNA WERNZ (LEHRSTUHL A FÜR MATHEMATIK):

The behavior of Hermitian theta series under the action of the extended Hermitian modular group

It is well known that Hermitian theta series of an even unimodular theta lattice of rank r are Hermitian modular forms of weight r for the full modular group. In this talk, we want to consider an extension of the full modular group and examine the behavior of Hermitian theta series under the action of this extended group.

In the beginning of the talk, I will introduce the topic by revising Möbius transformations and modular forms for the modular group $SL_2(\mathbb{Z})$. Using this knowledge, I will then go on to defining the Hermitian modular group of degree 2 and Hermitian modular forms for this group as well as introducing Hermitian theta series. The second part of the talk will focus on defining the extended Hermitian modular group and examining the behavior of Hermitian theta series under the action of the extended Hermitian modular group.

Wir laden alle Interessierten herzlich ein.