

SPEAKER: Nils Skoruppa (University of Siegen, Germany)

TITLE: Towards an arithmetic theory of Jacobi forms over number fields

ABSTRACT: The main theorem of the arithmetic theory of the classical Jacobi forms à la Eichler-Zagier is the Hecke equivariant lifting to elliptic modular forms and the fact that the Fourier coefficients encode information about the special values of the twisted L-series of the associated modular forms. On the other hand, as it turned out quite recently, Jacobi forms are surprisingly simple to calculate. In this talk we recall these facts in more detail. We then report on recent research to develop a similar theory over totally real number fields.