Workshop Calabi-Yau Motives

28.-30.01.2019

<u>Speakers:</u>

Rainer Weissauer (Universität Heidelberg)

Eichler-Shimura Theory for Siegel modular varieties

Roughly speaking the theory of Eichler-Shimura relates eigenvalues of the Frobenius at p on the cohomology of Siegel modular varieties (for p prime to the level) to the eigenvalues of Hecke operators at p on spaces of certain holomorphic Siegel cusp forms. We give a survey on what is known with special emphasis on the cases genus g=1 and g=2 and discuss the corresponding l-adic Galois representations.