

Upstate New York Online Number Theory Colloquium

Time and Date: 12:00 pm EST March 08, 2021

Speaker: Gerard van der Geer

Title: Modular forms and invariant theory

Abstract: Siegel and Teichmueller modular forms of genus g are generalizations of the usual elliptic modular forms, the case $g=1$, but live on the moduli spaces of abelian varieties and curves of genus g . These forms, are just as intriguing, but more difficult to construct. We intend to show how one can use invariant theory to describe in principle all such modular forms for genus 2 and 3 explicitly. This is joint work with Fabien Clery and Carel Faber.