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Johannes Brödel - Beyond the elliptic curve

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Numerous structures, objects and algorithms have been made accessible and have been understood for elliptic curves: abelian differentials, the Kronecker function, various flavours of iterated integrals and elliptic multiple zeta values. In this lecture, I will discuss the framework and boundary conditions in which the obvious question for similar structures on surfaces of genus two might be answered. We will explore higher-genus versions of theta functions, generalization of the Fay identity and have a short peek on Siegel modular forms. If time permits, we might discuss what it needs for a genus-two version of the well-known Kronecker function at genus one.

Presenter: Dr BRÖDEL, Johannes