



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 15. Januar 2019

17 Uhr s.t., Geom H4

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From Abel-Jacobi to the double ramification cycle and beyond

Abstract:

A basic question in the theory of algebraic curves is whether a divisor represents the zeros and poles of a rational function. An explicit solution in terms of periods was given by the work of Abel and Jacobi in the 19th century. In the past few years, a different approach to the question has been pursued: what is the class in the moduli of pointed curves of the locus of such divisors? I will explain the answer in Gromov-Witten theory given by Pixton's formula for the double ramification cycle. More recently, the subject has been developing in several new directions which I will present. My work here is joint with F. Janda, A. Pixton, and D. Zvonkine.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.