



Berufungsvorträge
“ALGEBRAISCHE GEOMETRIE“

Die Berufungsvorträge schließen folgende Punkte mit ein: Didaktischer Vortrag (25 Minuten)
Fragen/Pause (10 Minuten)
Wissenschaftlicher Vortrag (45 Minuten)
Fragen/Pause (15 Minuten)
Kommissionelles Hearing -
(Dekanatsbesprechungszimmer, 11. Stock)

Montag, 29. April 2019, Seminarraum 9

Alina Marian
(Northeastern University)

15:00 Uhr: Didaktischer Vortrag

“On product representations of holomorphic functions”

I will exemplify product representations of holomorphic functions in one classic case: the Jacobi theta function. Applications include Euler’s pentagonal number theorem. The talk assumes knowledge of complex analysis on the level of an introductory course.

15:35 Uhr: Wissenschaftlicher Vortrag

“Hilbert schemes of points and enumerative geometry”

The Hilbert scheme of points on a smooth complex surface is a central object in modern enumerative geometry. Intersection-theoretic invariants associated with the Hilbert scheme connect to both classical counting problems as well as gauge-theoretic invariants appearing for example in Donaldson theory. In the talk, I will introduce one series of fundamental integrals on the Hilbert scheme: the Segre numbers of tautological vector bundles. I will explain their geometric significance and will describe recent progress in their evaluation.