



Leibniz
Universität
Hannover

Oberseminar Institut für Algebraische Geometrie

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A non-hypergeometric E-function

In a landmark 1929 paper, Siegel introduced the class of E-functions with the goal of generalising the transcendence theorems for the values of the exponential. E-functions are power series with algebraic coefficients subject to certain growth conditions that satisfy a linear differential equation. Besides the exponential, examples include Bessel functions and a rich family of hypergeometric series. Siegel asked whether all E-functions are polynomial expressions in these hypergeometric series. I will explain why the answer is negative (joint work with Peter Jossen).

Donnerstag, 29.04.2021

16:30 - 17:30

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Alle Interessierten sind herzlich eingeladen.