



1 1
1 0 2
1 0 0 4

Leibniz
Universität
Hannover

Oberseminar

Zahlentheorie und Arithmetische Geometrie

Dr. Damian Gvirtz
(Leibniz Universität Hannover)

"Quantitative arithmetic of diagonal degree 2 K3 surfaces"

In joint work with D. Loughran and M. Nakahara, we study the existence of rational points for the family of "diagonal degree 2 K3 surfaces" over \mathbb{Q} . Using recent breakthroughs in the study of their algebraic and transcendental Brauer groups, we show that when coefficients are ordered by height, the Brauer group is almost always trivial, and find the exact order of magnitude of surfaces for which there is a Brauer-Manin obstruction to the Hasse principle. Our results exhibit infinitely many K3 surfaces with a Brauer-Manin obstruction to the Hasse principle that is only explained by odd order torsion.

Donnerstag, 14.11.2019

ab 12:00 Uhr, g117

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik