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Leibniz
Universität
Hannover

Oberseminar

Zahlentheorie und Arithmetische Geometrie

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(Leibniz Universität Hannover)

"Counting integral points on a log Fano threefold"

Manin conjectured an asymptotic formula for the number of rational points of bounded height on Fano varieties. One generalization concerns the number of integral points on log Fano varieties (X, D) . In this setting, the known cases of Manin's conjecture include partial equivariant compactifications of tori and vector groups, proved by Chambert-Loir and Tschinkel.

We prove an asymptotic formula for the number of integral points of bounded height on the complement of certain planes in projective threespace blown up in a conic that is compatible with the existing predictions. To do so, we lift the problem to the universal torsor – a method developed by Salberger with which he counted rational points on toric varieties.

Donnerstag, 29.06.2017

ab 12:00 Uhr, a410

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik