



Leibniz
Universität
Hannover

Oberseminar für Arithmetische Geometrie und Zahlentheorie.

Rony Bitan
(Bar Ilan University)

Geometric Gauss.

A well known result of Gauss relates (iso. classes of) ideals of the ring of integers O_K of a quadratic number field K , to (proper iso. classes of) binary quadratic \mathbb{Z} -forms sharing the discriminant of K . Using flat cohomology we prove an effective analogue of this correspondence for forms over the ring of rational functions $F_q[x]$ (q is odd) and express the full classification (not only properly) in terms of $Pic(O_K)$. Another obtained result analogous to Gauss' one is given a form q , any form of the same discriminant composed with itself belongs to the principal genus of q .

Mittwoch , 02.07.2021

11:00 - 12:00

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Alle Interessierten sind herzlich eingeladen.