Seminar/Talk

Manin's conjecture for Châtelet surfaces

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Host: Tim Browning

We resolve Manin's conjecture for all Chtelet surfaces over Q (surfaces given by equations of the form $x^2 + ay^2 = f(z)$) -- we establish asymptotics for the number of rational points of increasing height. The key analytic ingredient is estimating sums of Fourier coefficients of modular forms along polynomial values.

Thursday, March 20, 2025 01:00pm - 03:00pm

Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)