



Seminar/Talk

# Manin's conjecture for Châtelet surfaces

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Host: Tim Browning

We resolve Manin's conjecture for all Châtelet surfaces over  $\mathbb{Q}$  (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 / Heinzl Seminar Room (I21.EG.101)



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