

CM-POINTS ON STRAIGHT LINES

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A CM-point (or special point) is a point of the form $(j(\tau_1), j(\tau_2))$ where both τ_1, τ_2 are imaginary quadratic numbers. In this talk we will show that, with "obvious" exceptions, a CM-point cannot belong to a straight line in \mathbb{C}^2 defined over \mathbb{Q} .

Joint work with Bill Allombert (Université de Bordeaux) and Yuri Bilu (Université de Bordeaux).