

Around rational points on curves

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I will quickly go through the key ingredients of Vojta, Faltings and Bombieri's proof of the Mordell conjecture (known as the Faltings Theorem), and explain how to use functional transcendence results to improve the upper bound of the number of rational points. The goal is to remove the dependence on the Faltings height in the known bounds. This is joint work in progress with Vesselin Dimitrov and Philipp Habegger.