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Rational points on Fano varieties

Thursday, 26 September 2024 11:00 (1 hour)

Fano varieties form one of the fundamental classes of building blocks in the birational classification of algebraic varieties. In this talk I will discuss how their special geometric properties can be used to study their arithmetic. I will focus on a few conjectures about their rational points over number fields (potential density, Manin's conjecture) and how they can be investigated by determining the asymptotic behavior of certain counting functions of rational points. All the main objects involved will be introduced and illustrated by examples. A summary of the literature on the topic will be discussed, including my own contribution.

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