

Algebraic Geometry Seminar

Birational superrigidity and K-stability of Fano varieties

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Abstract: We will look at the relation between two concepts in the geometry of Fano varieties: birational superrigidity, which comes from the study of Mori fiber space structures on a Fano variety, and K-stability, coming from the study of nice metrics of Fano manifolds. We show that as long as the alpha invariant of a Fano variety is greater than $1/2$, any birationally superrigid Fano variety is K-stable.

Wednesday, September 5 at 4:00 PM in 427 SEO