

Finite order birational automorphisms of Fano hypersurfaces

Lena Ji

UIUC, USA

For certain families of varieties, Matsusaka and Mumford defined a specialization homomorphism for the birational automorphism group. In this talk, we study the kernel of this specialization homomorphism. As an application, we show that there exist complex Fano hypersurfaces of arbitrarily high Fano index (in sufficiently high dimension) that admit no finite order birational automorphisms. This work is joint with Nathan Chen and David Stapleton.

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