Mathematics, Statistics, and Computer Science **@ UIC**

Algebraic Geometry Seminar

Homomorphisms between Cremona groups

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Abstract: The Cremona group is the group of birational transformations of the projective space. While the plane Cremona group is well understood, many questions about Cremona groups in higher dimensions remain open. In this talk we will look at the question how the plane Cremona group can be embedded into Cremona groups in higher dimensions. In particular, I will give a classification of algebraic embeddings from the plane Cremona group to the group of birational transformations of a threefold and explain the geometry of some interesting examples in higher dimensions.

Wednesday, February 22 at 4:00 PM in SEO 427