

Higher rational and higher Du Bois singularities and applications

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Two standard notions of singularities are rational and Du Bois singularities. In this talk, I will discuss recent generalizations of these notions - the higher rational and higher Du Bois singularities. After reviewing the definitions and basic properties of these classes of singularities, I will discuss about some concrete geometric applications, specifically to the geometry of moduli spaces of Calabi–Yau varieties.

This is joint work with R. Friedman.