

Algebraic Geometry Seminar

Resolution in toroidal orbifolds

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Abstract: A beginner can easily resolve toric singularities. While enormous progress was made on simplifying characteristic-0 resolution of singularities in general, wouldn't it be nice to have a straightforward way to transform any singularity to a toric singularity? In joint work with Michael Temkin (Jerusalem) and Jarosław Włodarczyk (Purdue) we principalize an ideal, making it monomial on a variety which has only toroidal singularities, leading to such transformation, albeit using the language of stacks. I'll try to show how this works in explicit examples.

Wednesday, September 27 at 4:00 PM in SEO 427