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The invariant Hilbert scheme of the Cox realization

Monday, 18 December 2023 11:00 (30 minutes)

The invariant Hilbert scheme is a moduli space of schemes which are stable under an action of a reductive algebraic group. By a suitable choice of the parameter, it becomes a candidate for a resolution of singularities of an affine quotient variety via the so-called Hilbert-Chow morphism. In this talk, we will focus on the Cox realization as a way to represent an affine singularity as a quotient variety and consider the associated invariant Hilbert scheme.

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