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Title: Algebraic and Geometric Invariants of Singularities

Abstract: A singularity of the zero set of some polynomial equations is a point where the Jacobian matrix of the equations doesn't have full rank.

In this talk, I aim to discuss two kinds of invariants of singularities: those that come from a resolution, or smoothing, of the singularity, and those that can't be described in this fashion.

Short Biography: Christian Haesemeyer received a diploma in mathematics from Bonn University in 1999, and his PhD from Northwestern University in 2003.

After post-docs at the University of Illinois and the Institute for Advanced Study, he moved to the University of Illinois at Chicago in 2007, and towards warmer climate to UCLA in 2008. His research interests are in algebraic K-theory and algebraic cycles.