

Rees algebras and singularities of rational curves

Claudia Polini

Notre Dame, USA

Abstract:

I will report on several papers in collaborations with Kustin and Ulrich and in collaboration with Cox, Kustin and Ulrich. The first part of the talk will focus on describing the equations defining the Rees algebras of three generated ideals. In the second part of the talk we will relate the singularity types of a rational plane curve to the syzygies of the forms parametrizing it.