

The Institute of the Mathematical Sciences of the Americas

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Alexander Polynomials of Algebraic Links

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The Alexander polynomial is one of the most well-known invariants in knot theory. In the first part of this talk, I will review basic definitions and examples of Alexander polynomials of algebraic links. Then I will survey several results expressing Alexander polynomials of algebraic links via tools of algebraic geometry. Then I will discuss briefly how the spectrum of a plane curve singularity is related to the Alexander polynomial of its algebraic link.