

# The Institute of the Mathematical Sciences of the Americas

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## Plane Curve Singularities and Spectrum

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In the first part of this talk, I will review basic notions and results about plane curve singularities, e.g. blow-ups, resolution of singularities, Newton-Puiseux series, etc. Then I will explain how to compute the spectrum of a plane curve singularity via Newton-Puiseux series based on Morihiko Saito's work.