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Arc-quasianalytic functions

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The talk is based on the joint work with Edward Bierstone and Pierre D. Milman.

Session: 30. Real Algebraic Geometry, applications and related topics

I will present the results of a joint work with E. Bierstone and P. Milman. We will focus on the tame quasianalytic classes of functions. I will explain that if a function $f: U \to \mathbb{R}$ is quasianalytic along every definable arc and has quasianalytic graph then this function becomes quasianalytic after finitely many local blowing-ups of smooth admissible centers. This generalizes a theorem of the first two authors about arc-analytic functions.