

Exposé 1:

Title: Geometry of singularities of algebraic surfaces

Abstract: We make an introduction to the Lipschitz Geometry of Singular Complex algebraic surfaces. Some basic concepts and the connection with 3-topology will be explained.

Exposé 2:

Title: Lipschitz Regular complex algebraic sets are smooth.

Abstract: A classical Theorem of Mumford implies that a topologically regular complex algebraic surface in \mathbb{C}^3 with an isolated singular point is smooth. We prove that any Lipschitz regular complex algebraic set is smooth. No restriction on the dimension and no restriction on the singularity to be isolated is needed. This is a joint work with Lev Birbrair, Le Dung Trang e Edson Sampaio.

