

LIB60BER

Separating sets in isolated complex singularities

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ABSTRACT

Joint work with Lev Birbrair and Alexandre Fernandes. A "separating set" (or "Cheeger cycle") in the germ of a point x in an algebraic set X of real dimension n is a codimension 1 set which has negligible $(n - 1)$ -dimensional density at x , but which separates X locally into pieces of positive n -dimensional density. The talk will describe the ubiquity of such sets in germs of isolated complex singularities.