

Connectivity results for singular map-germs

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Let X be a germ of hypersurface and let d be the dimension of the singular locus of X . The classical Kato-Matsumoto Theorem implies that the Milnor fibre of X has non-trivial homology concentrated in a range of $d+1$ dimensions, the highest being the middle dimension. In this talk, we will show analogous results for stabilisations of map-germs. The talk will illustrate a simple application of the theory of perverse sheaves, and no specialized background will be assumed. The results are joint work with Yongqiang Liu and Matthias Zach.