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*Arc-Floer conjecture for homogeneous isolated singularities*

Given an isolated hypersurface singularity, one may associate to it algebraic invariants by studying the space of arcs and jets, or topological invariants via its Milnor fiber. The arc-Floer conjecture predicts an isomorphism between the cohomology of the contact loci of arcs and the Floer homology of iterates of the monodromy on the Milnor fiber. The case of plane curve singularities has been proven by de la Bodega and de Lorenzo Poza. In this talk we explain the history of this conjecture and present the first class of examples in higher dimensions, which are the homogeneous isolated singularities. This is joint work with de Lorenzo Poza.