

Singularities, contact loci and Floer Homology and the Zariski multiplicity conjecture

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Resumen

The lecture will start with some two old Singularity Theory conjectures by Zariski, stop to show how one of them was disproved, and evolve to show how Symplectic Topology, Floer theory and hybrid log-tropical-classical spaces help with the positive solution of the Zariski multiplicity conjecture (the one that remained open) for families of isolated singularities, and to a better understanding of the truth behind the disproved one.