



Universidad Politécnica de Madrid

Seminario del Grupo de Investigación Geometría y sus aplicaciones

https://geometria.etsin.upm.es/

Homogeneous braids and real algebraic links

Benjamin Bode (UPM)

Abstract: Let $f : \mathbb{R}^4 \to \mathbb{R}^2$ be a real polynomial map with an isolated singularity at the origin. Then the intersection of the zeros of f and a 3-sphere of sufficiently small radius is a smooth, closed 1-manifold embedded in S^3 , i.e., a link. The links that arise in this way are called real algebraic. It is not known which links are real algebraic. In this talk, I will discuss the family of homogeneous braids and their relationship to the above. In particular, closures of homogeneous braids are real algebraic links.

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