



Universidad Politécnica de Madrid

Seminario del Grupo de Investigación Geometría y sus aplicaciones

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

Topology of line arrangements and linking invariants

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Abstract: In the first part (accessible to PhD candidate and master students), I give an overview about the topic which is at the intersection of hyperplane arrangements and algebraic plane curves. I talk about the origins with the results of Brieskorn, Deligne and Saito for the hyperplane arrangements side, and the work of Zariski for the algebraic plane curve side. Then, I present some of the main questions and problems of this domain. In the second part, I introduce a linking invariant for line arrangement. In its simpler version, it's an adaptation of the linking number of knots theory. To finish, I present some of the achievements obtained using this invariant.

Fecha: jueves 24 de abril de 2025 a las 15:00.

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