Universidad Politécnica de Madrid

Seminario del Grupo de Investigación Geometría y sus aplicaciones

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

A Plücker formula and equisingularity for curves

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Abstract: For a reduced projective curve X I will derive a formula that relates the degree of X and the degree of the dual hypersurface X' with the arithmetic genus of X and the Milnor numbers and multiplicities of the singularities of X. The proof uses an algebraic invariant called the complete intersection discrepancy of a curve. As an application I will show that a flat family of projective curves is equisingular if and only if the degree of the dual curve of each fiber is constant across the family. This is a report on a joint work with Bernard Teissier.

Fecha: jueves 23 de enero de 2025 a las 15:00.

Lugar: Aula D21 (Aulario GeM) de la ETS de Ingeniería Agronómica, Alimentaria y de Biosistemas, UPM.