

Let's talk about 3-manifolds in Euclidean spaces

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Abstract: The aim of this talk is to showcase some new results on the subject of both, regular and singular, 3-manifolds in \mathbb{R}^6 and \mathbb{R}^5 , respectively. In order to do so, a study of the second order geometry of those objects will be presented, relating their second fundamental form to nets of quadrics. Also, a glimpse on the affine classification of their curvature loci will be given.

Joint work with: Andrea de J. Sacramento, Maria A. S. Ruas and Raúl O. Sinha.