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SEMINARIO DE GEOMETRÍA ALGEBRAICA

Jueves 12 de enero de 2017, **13:00**, Seminario 238

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Università degli Studi di Trento

Impartirá la conferencia

Flag bundles on Fano manifolds

Resumen.

As an application of a recent characterization of complete flag manifolds as Fano manifolds having only P^1 -bundles as elementary contractions, we consider the case of a Fano manifold X of Picard number one supporting an unsplit family of rational curves whose subfamilies parametrizing curves through a fixed point are rational homogeneous, and we prove that X is homogeneous. In order to do this, we first study minimal sections on flag bundles over the projective line, and discuss how Grothendieck's theorem on principal bundles allows us to describe a flag bundle upon some special sections. This is a joint work with Luis E. Solá Conde and Jaroslaw Wisniewski