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SEMINARIO DE GEOMETRÍA ALGEBRAICA

Jueves 24 de noviembre de 2016, **10:00**, Seminario 238

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Impartirá la conferencia

Ulrich bundles on the intersection of 2 quadrics

Resumen.

Motivations of Ulrich bundles naturally came from linear algebra and commutative algebra. Thanks to Eisenbud and Schreyer, such an algebraic notion dives into the geometric world, and become a key object to observe the cone of cohomology tables and Cayley-Chow forms. In this talk, we review some classical constructions of ACM bundles on the intersection of two 4-dimensional quadrics by Arrondo and Costa. Then we will discuss 2 different methods for the construction of Ulrich bundles of arbitrary rank at least two. The first one is Serre correspondence, and the other one is Bondal-Orlov structure theorem of its derived category. This is a joint work in a progress with Yonghwa Cho and Kyoung-Seog Lee.