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Title: Uniform Steiner bundles

Abstract:

One of the most classical problems in vector bundles is the study and classification of uniform bundles, i.e. vector bundles whose splitting type is constant for any chosen line of the base projective space. In this talk we will recall the main results concerning this topic and we will introduce a new technique to construct families of uniform Steiner bundles which are not homogeneous. After proving upper and lower bounds for the rank of uniform Steiner bundles, a conjecture will be proposed of what we strongly believe is the global picture for uniform Steiner bundles. This is a joint work with Rosa Maria Mir'ò-Roig (UB-Spain).