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Title: On Fano bundles of higher rank on the projective spaces

Abstract:

We study the structure of Fano bundles of higher rank, mainly, on the projective space. It is well-known that there are many results about rank-2 Fano bundles on smooth projective varieties and in particular that almost of them split on  $n$  ( $\geq 3$ )-dimensional projective space. The latter is deeply connected with Hartshorne conjecture. On the other hand it seems to us that there are very few results of higher rank. In this talk we consider them on projective spaces and hyperquadrics.