SEMINARIO DE GEOMETRÍA ALGEBRAICA

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Impartirá la conferencia

ACM bundles on threefolds

Summary: Let $X \subset \mathbb{P}^n$ be a smooth projective threefold and $Pic(X) \cong \mathbb{Z}[H]$, where $[H]$ is the class of a hyperplane section. An arithmetically Cohen-Macaulay (ACM for short) vector bundle E on X is a vector bundle without intermediate cohomology i.e. such that

$$h^i(X, E(n)) = 0$$

for all integer n and $i = 1, 2$.

In the first part of the talk I will report on known results concerning the existence and the classification of irreducible rank 2 ACM bundles. In the second part I will consider the cases of rank bigger or equal than 3 (this is a joint work with E.Arrondo).