

TÍTULO: "Stably complex homogeneous spaces"

RESÚMEN: A real vector bundle over a smooth manifold is called complex if it is isomorphic to the underlying real bundle of a complex vector bundle (after "forgetting" the complex structure) and stably complex if it becomes complex after taking the direct sum with a trivial vector bundle. A smooth manifold  $M$  is called almost complex if its tangent bundle  $TM$  is complex, and stably complex if  $TM$  is stably complex. In this talk I will describe the classification (joint with P. Gauduchon and U. Semmelmann) of stably complex compact homogeneous spaces with non-vanishing Euler characteristic.