Colloquio di Matematica del Dini

28 ottobre 2022, ore 14:30, aula 202

Dipartimento di Matematica e Informatica "Ulisse Dini"
Università di Firenze

CLAIRE VOISIN

Institut de Mathématiques de Jussieu-Paris Rive Gauche (France)

On the topology of hyper-Kähler manifolds

Hyper-Kähler manifolds are symplectic holomorphic compact Kähler manifolds, a particular class of complex manifolds with trivial canonical bundle. They form a very restricted class, both from the Riemannian and complex geometry viewpoints. They also satisfy strong topological restrictions that I will describe, and that follow from the study of their deformations. I will also explain further restrictions in dimension 4, and a classification result obtained in collaboration with Debarre, Huybrechts and Macrì.

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