

SEMINARIO DI GEOMETRIA

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Politecnico di Torino,
Dipartimento di Scienze Matematiche,
AULA SEMINARI

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Globally generated vector bundles
on a smooth quadric threefold.

Globally generated vector bundles are basic objects in projective algebraic geometry and they correspond to morphisms to Grassmannian varieties. Recently there have been several works on the classification of globally generated vector bundles on projective spaces. In this talk, we classify globally generated vector bundles with low first Chern class on a smooth quadric threefold and investigate their indecomposability. Main ingredients are the Liaison theory and the technique of smoothing algebraic curves on a quadric threefold. This is the joint work with E.Ballico and F.Malaspina.