

SEMINARIO DI GEOMETRIA

27 novembre 2019, h.15.00-16.00

Politecnico di Torino,
Dipartimento di Scienze Matematiche,
AULA SEMINARI

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Spazi di moduli di rappresentazioni Pfaffiane di cubiche 3-dimensionali

Given a hypersurface $X \subset \mathbb{P}^n$, we can determine whether its equation might be expressed as the determinant of a matrix of linear forms by showing the existence of certain ACM sheaves on X . In this talk I will treat the case where X is a cubic threefold, illustrating how to prove the existence of sheaves that lead to Pfaffian representations of X . I will then present how to construct the moduli space parameterizing Pfaffian representations of 3-dimensional cubics and explain how it relates to the moduli space of instanton bundles.

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