Leibniz Universität Hannover

Oberseminar Institut für Algebraische Geometrie

Giulio Codogni

(Università di Roma Tor Vergata)

Characterizing Jacobians via the KP equation and via flexes and degenerate trisecants to the Kummer variety: an algebra-geometric approach.

I will present algebro-geometric proofs of a theorem by T. Shiota, and of a theorem by I. Krichever. These results characterize Jacobians of algebraic curves among all irreducible principally polarized abelian varieties. Shiota's characterization is in terms of the KP equation. Krichever's characterization is in terms of trisecant lines to the Kummer variety; I will discuss only the degenerate case of his result. The proofs rely on a new theorem asserting that the base locus of a complete linear system on an abelian variety is reduced. The talk is based on a joint work with E. Arbarello and G. Pareschi.

Donnerstag, 23.06.2022

16:30 - 17:30, Raum B302

Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.