SEMINARIO DI MATEMATICA

Martedì 1 marzo 2016
ore 16:00

Scuola Normale Superiore
Pisa
Aula Bianchi

Fabrizio Catanese
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terrà un seminario dal titolo:

"Configurations of lines and interesting algebraic surfaces"

Abstract:

Many important question in the theory of surfaces and in algebraic geometry have been solved thanks to explicit constructions of algebraic surfaces as abelian coverings branched over special configurations of lines. After recalling the classical configurations (Pappus, Desargues, Fano, Hesse) I shall describe simple equations for such surfaces, as the Fermat, and Hirzebruch-Kummer coverings. As the configuration of lines becomes special some interesting geometry shows up, as in the case of the six lines of a complete quadrangle, relted to the Del Pezzo surface of degree 5 and its icosahedral symmetry. After mentioning many important such examples and applications, by several authors, I shall concentrate on a recent simple series of such surfaces, studied in my joint work with Ingrid Bauer and Michael Dettweiler, discussing new results and quite general open questions.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze Matematiche e Naturali