



SCUOLA
NORMALE
SUPERIORE
PISA

Colloqui Classe di Scienze

Mercoledì 18 maggio 2011
ore 15.00

Scuola Normale Superiore
Pisa
(Sala Stemmi)

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Terrà un seminario dal titolo:

“Numbers and symmetries: the 200th anniversary of Galois' birth”

Abstract:

Almost two centuries ago , Evariste Galois gave the key to a deeper understanding of the difficulties facing the solution of algebraic equations of degree higher than four . The new idea is a " theory of ambiguity " , explaining why we cannot distinguish for instance between $2^{1/2}$ and $-2^{1/2}$. In essence , what does it mean to define a number ? After a classical age , where the heroes have been Emil Artin , André Weil and his illegal brainchild Nicolas Bourbaki , Claude Chevalley and many others , the problem sprung again after the thorough revision of geometry by Alexander Grothendieck . I shall describe some instances of new developments connected with this theory of ambiguity , hence offering a walking tour through geometry , number theory , differential equations , and physics . I shall describe the expected role of a mysterious "cosmical Galois group"

Tutti gli interessati sono invitati a partecipare

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