



SCUOLA
NORMALE
SUPERIORE

SEMINARIO DI TEORIA DELLE RAPPRESENTAZIONI

lunedì 5 settembre 2011

ore 16.00

Scuola Normale Superiore

Pisa

(Aula Bianchi)

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Terrà un seminario dal titolo:

***“Fredman's reciprocity for invariants of abelian groups
and permanent of the Cayley table”***

Abstract

Let R be the regular representation of a finite abelian group G and let C_n denote the cyclic group of order n . For $G=C_n$, we compute the Poincare series of all C_n -isotypic components in the symmetric tensor exterior algebra of R . From this we derive a general reciprocity, which relates different cyclic groups, and some number-theoretic identities. This generalises results of Fredman and Elashvili--Jibladze. Then we consider the Cayley table, M_G , of G and some generalisations of it. In particular, we prove that the number of formally different terms in the permanent of M_G equals $S^n(R)^G$, where n is the order of G .

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze