המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום *שלישי, 25 באפריל, 2017*

בשעה *14:30 – 15:30*

ב*101- Math*

ההרצאה

the of theory representation in Stability groups symmetric

תינתן על-ידי

(BGU) Entova-Aizenbud Inna

תקציר: In the theory of representation finite-dimensional the of groups symmetric. The "stabilization" of phenomena interesting an an is there, over the field base $\mathbb{C}$, S_n of representations some in appear sequences $(V_n)_{n\geq 0}$, where each S_n of representation finite-dimensional a is V_n as $n \to \infty$: the become V_n where S_n, in same". "the V_n on S_n of characters the of (character) trace the $n >> 0$, for condition: the satisfy the is $x_i(\sigma)$ where x_i, variables the in polynomial a by given is V_n of $\sigma \in S_n$ the in i length of cycles of number σ. permutation

One manfiestation of this phenomena are sequences $(V_n)_{n\geq 0}$ such that the sequences these precisely, More \$n\$". in "polynomial are V_n on S_n of characters automorphism the of (character) trace the $n >> 0$ for sense certain a .$n >> 0$

dim(V_n) that property agreeable the satisfy $(V_n)_{n\geq 0}$ sequences such particular, In
.n in polynomial is
cohomologies contexts: many in encountered are sequences“ ”polynomial Such
oriented connected a on points ordered distinct n of spaces configuration of
more. and matrices, $n \times n$ of varieties rank on polynomials of spaces manfiold,
by extensively studied been have and -modules,FI called are sequences These
polynomiality on results interesting many yielding others, and Farb Ellenberg, Church,
spaces. these of dimensions of n in
following the by described is phenomena stability the of version stronger A
settings: two
some explain and connected, are they that show settings, both describe will I
groups. symmetric the of theory representation the in applications