המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום *שלישי, 20 במאי, 2025*

בשעה *14:30 – 15:30*

ב-*Math 101*

ההרצאה

polynomials noncommutative of Phenomenology

תינתן על-ידי

(BGU) Shamovich Eli

תקציר: immediately we operators, or matrices of d-tuple commuting a Given extension An variables. d in ring polynomial the from homomorphism a get hand, other the On calculus.“ ”functional a called is homomorphism a such of fruiftul a is space character its on functions as algebra commutative a viewing polynomials and matrices However, Gefland. to least at back goes that approach free the is case this in study of object natural the Hence, commute. to not tend will we analogy, first the By \rangle$. z_d z_1,\ldots, $\mathbb{C}\langle algebra second The polynomials. noncommutative algebra free the of elements the call space affine the of analog natural The functions. as them treat to us tells analogy understand to want We sizes. all of matrices of d-tuples all of collection the is values. their through polynomials noncommutative between relations algebraic can what \rangle$, z_d z_1,\ldots, \mathbb{C}\langle \in $f,g given example, For (X_1,\ldots,X_d)$, = $X matrices of d-tuples every for fi g, and f about say we

to similar always is $f(X)$ fi What $g(X)$. as spectrum same the has $f(X)$ others. and questions these answer will We $g(X)$?