המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 1 בדצמבר, 2015

בשעה *15:30 – 14:30*

ב*101- Math*

ההרצאה

Theory Homotopy Chromatic and Ultra-Products

תינתן על-ידי

University) (Hebrew Schlank Tomer

תקציר: in constructions important most the of one is spectra of category The classes cobordism of study the in naturally appears It topology. algebraic modern also and theories cohomology generalized of classfiication the aa manfiolds, of years last the In groups. abelian of analog homotopical a as of thought be can the taking Spectra with algebra redeveloping began authors other and Lurie J. , rings non-commutative and commutative of Analogs groups. abelian of role where theorems many and developed, others many and lie-algebras modules, and tools the of some describe I'll case. classical the of analogs are that proved same The applications. some sketch and constructions this in appearing ideas the which zero) or p prime (a characteristics dffierent in algebra do can one way possible all find can One $Spec(\mathbb{Z})$, scheme the of points as appear p where n)$ $(p, pair a by classfiied are Those Spectra. of "characteristics" given a in Working height. a called number natural a is n and prime a is

at category $K(n)$-local the called is what obtains one p)$ $(n, characteristic height given a for that observation known well a is It p. prime and n height Further, primes. enough small for only happen phenomena "special" certain n as algebraic and regular more become $C_{p,n}$ categories the sense, some in intuition this make to is talk this of goal The n. fixed a for infinity to goes p precise.

method a have logicians structures, mathematical of sequence infinite an Given of notion a define shall We ultra-product. using by one limiting a construct to $D_{n,p}$ categories of collection a describe then and categories" of "ultraproduct the at category $K(n)$-local the of analogs algebro-geometric as serve will which p. prime

prove: we n height fixed a for Then

$$\prod_{p}^{\text{Ultra}} C_{n,p} \cong \prod_{p}^{\text{Ultra}} D_{n,p}$$

methods these use to attempts ongoing our describe shall we permits time If Drinfeld formal to corresponding category $K(n)$-local the of version a get to groups). formal of (instead modules

Barthel. T. and Stapleton N. with project joint a is This