

Department of Mathematics, BGU

AGNT

On Wednesday, November ,20 2019

At 15:10 – 16:25

In 101-

Haldun Özgür Bayindir (Hafia)

will talk about

DGAs with polynomial homology

Abstract: Differential graded algebras (DGAs) are one of the most important objects of study in homological algebra. These are chain complexes with an associative and unital multiplication. Examples of DGAs include cochain complexes of topological spaces equipped with the cup product.

In this talk, I present our recent classification results on DGAs with polynomial homology. These results are obtained by exploiting interesting interactions between DGAs and stable homotopy theory. I am going to start my talk by stating these classification results. For the rest of the talk, I am going to present how stable homotopy theory comes into play for the classification of DGAs. This presentation is going to be accessible to a general audience.

Please Note the Unusual Time!