Ben Gurion University – Mathematics
Algebraic Geometry and Number Theory Seminar

Speaker **Liran Shaul (Bielefeld)**

Title **On a well behaved category of derived commutative rings**

Date Wednesday, 2 November 2016

Time 15:10 – 16:30 (starts 15:10 sharp)

Location Room -101 in Building 58

Abstract

Let K be a commutative noetherian ring. The goal of this talk is to present a category of derived commutative rings over K which includes the finite type K-algebras, and is closed under the operations of localization, (derived) tensor products, and (derived) adic completion. To do this we introduce a homotopy category of derived commutative rings, and explain how to perform these various operations in this category. In particular, we construct the derived adic completion of a derived commutative ring with respect to a closed subset of its spectrum under mild finiteness conditions.

(updated 24 Oct 2016)