

Department of Mathematics, BGU

Algebraic Geometry and Number Theory

On Wednesday, May ,20 2015

At 15:00 – 16:30

In Math 101-

Liran Shaul (University of Antwerp)

will talk about

Hochschild cohomology and adic completion

Abstract: Hochschild cohomology is the prominent cohomology theory for associative algebras. In this talk we study relations between the Hochschild cohomology modules of a commutative algebra A , and the \mathfrak{a} -adic completion operation, for an ideal \mathfrak{a} in A . We will first recall what is Hochschild (co)-homology and explain its importance, then discuss some basic results about the derived completion and derived torsion functors, and finally apply these results to the noetherian case, and deduce that Hochschild cohomology commutes with adic completion.

Please Note the Unusual Time!