

Department of Mathematics, BGU

AGNT

On *Wednesday, March ,26 2025*

At *14:10 – 15:10*

In *101-*

Amnon Besser (Ben Gurion University)

will talk about

On the Katz-Litt theorem

Abstract: The Katz-Litt theorem gives an explicit recipe to describe Vologodsky integration on curves with semi-stable reduction in terms of Coleman integration on the rigid analytic domains reducing to the smooth components of the reduction. In work with Mueller and Srinivasan we gave an alternative recipe, more closely related to our past work with Zerbes, which was proved to follow from the Katz-Litt theorem by Katz. In this talk I will describe this alternative recipe and prove it directly. This new proof is significantly simpler than the original proof.