

Department of Mathematics, BGU

AGNT

On Wednesday, October 31, 2018

At 15:10 – 16:25

In -101

AVNER SEGAL (BAR ILAN)

will talk about

Poles of the Standard L-function and Functorial Lifts for G_2

ABSTRACT: This is part 2 of 2 of an expanded version of the speaker's talk from last semester.

The functoriality conjecture is a key ingredient in the theory of automorphic forms and the Langlands program. Given two reductive groups G and H , the principle of functoriality asserts that a map $r:G^\wedge \rightarrow H^\wedge$ between their dual complex groups should naturally give rise to a map $r^*:\text{Rep}(G) \rightarrow \text{Rep}(H)$ between their automorphic representations. In this talk, I will describe the idea of functoriality, its connection to L-functions and recent work on weak functorial lifts to the exceptional group of type G_2 .