

Department of Mathematics, BGU

AGNT

On Wednesday, December 25, 2019

At 15:00 – 16:15

In -101

NADYA GUREVICH (BGU)

will talk about

Fourier transforms on the basic affine space

ABSTRACT: For a quasi-split group G over a local field F , with Borel subgroup $B=TU$ and Weyl group W , there is a natural geometric action of $G \times T$ on $L^2(X)$, where $X=G/U$ is the basic affine space of G . For split groups, Gelfand and Graev have extended this action to an action of $G \times (T \times W)$ by generalized Fourier transforms Φ_w . We shall extend this result for quasi-split groups, using a new interpretation of Fourier transforms for quasi-split groups of rank one.

This is joint work with David Kazhdan.