

Department of Mathematics, BGU

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# AGNT

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*On Wednesday, November ,28 2018*

*At 15:10 – 16:25*

*In 101-*

Avner Segal (Bar Ilan)

will talk about

## **Structure of Degenerate Principal Series of Exceptional Groups**

Abstract: The reducibility and structure of parabolic inductions is a basic problem in the representation theory of  $p$ -adic groups. Of particular interest is its principal series and degenerate principal series representations, that is parabolic induction of 1-dimensional representations of Levi subgroups. In this talk, I will start by describing the functor of normalized induction and its left adjoint the Jacquet functor and by going through several examples in the group  $SL_4(\mathbb{Q}_p)$  will describe an algorithm which can be used to determine reducibility of such representations. This algorithm is the core of a joint project with Hezi Halawi, in which we study the structure of degenerate principal series of exceptional groups of type  $E_n$  (see <https://arxiv.org/abs/1811.02974>).