

Department of Mathematics, BGU

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## OA/OT Seminar

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*On Tuesday, December ,3 2019*

*At 10:30 – 12:00*

*In 101-*

Eli Shamovich (BGU)

will talk about

### **Learning Seminar: Takesaki's noncommutative Gelfand duality (part I)**

Abstract: In this talk, we will start going over Takesaki's annals paper that proves that every separable  $C^*$ -algebra  $A$  can be represented as continuous "non-commutative" functions with values in  $B(H)$  ( $H$  separable) on the space of representations of  $A$  on  $H$ . Furthermore, the universal enveloping von Neumann algebra of  $A$  is identified with all the bounded "noncommutative" functions on the same space