

Department of Mathematics, BGU

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## Colloquium

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*On Tuesday, June 27, 2017*

*At 14:30 – 15:30*

*In Math -101*

YAIR GLASNER (BGU)

will talk about

### **Invariant random subgroups in combinatorics, dynamics and representation theory**

ABSTRACT: Let  $G$  be a locally compact group. For example it could be a discrete group or a Lie group. A random closed subgroup of  $G$ , whose distribution is invariant under conjugation by elements of  $G$  is called an “invariant random subgroup of  $G$ ” or IRS for short.

IRS turn out to be very useful in a surprisingly wide array of applications even outside of group theory. Yielding significant contributions to a-priori unrelated subjects such as these mentioned in the title.

I will survey some of these developments by stating one theorem in each of these subjects explaining exactly how IRS come into the picture.