

Department of Mathematics, BGU

Colloquium

On Tuesday, January, 9 2018

At 14:30 – 15:30

In Math 101-

George Glauberman (University of Chicago)

will talk about

An analogue of Borel's Fixed Point Theorem for finite p -groups

Abstract: Borel's Fixed Point Theorem states that a solvable connected algebraic group G acting on a non-empty complete variety V must have a fixed point. Thus, if V consists of subgroups of G , and G acts on V by conjugation, then some subgroup in V is normal in G .

Although G is infinite or trivial here, we can use the method of proof to obtain applications to finite p -groups. We plan to discuss some applications and some open problems. No previous knowledge of algebraic groups is needed.