THE WEIZMANN INSTITUTE OF SCIENCE  
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE  

Geometric Functional Analysis and Probability Seminar  

Room 1 , Ziskind Building  
on Thursday, Jul 16, 2015  
at 11:05  

NOTE UNUSUAL ROOM  

Alexander Fish  
University of Sydney  

Ergodic theorems for amenable groups  

Abstract:  

We will talk on the validity of the mean ergodic theorem along left Følner sequences in a countable amenable group G. Although the weak ergodic theorem always holds along any left Følner sequence in G, we will provide examples where the mean ergodic theorem fails in quite dramatic ways. On the other hand, if G does not admit any ICC quotients, e.g. if G is virtually nilpotent, then we will prove that the mean ergodic theorem does indeed hold along any left Følner sequence. Based on the joint work with M. Björklund (Chalmers).