

1145-05-1669 **Anand Pillay*** (apillay@nd.edu), Department of Mathematics, University of Notre Dame,
Notre Dame, IN 46556. *Regularity theorems in group environments*. Preliminary report.

The talk is on work with Gabe Conant and Caroline Terry, and concerns the asymptotic behavior of subsets A of a finite group G , sometimes under additional assumptions on the graph defined by $xy \in A$. I will survey the existing results and methods, and discuss new results if appropriate. (Received September 23, 2018)