

## Discrete Mathematics Seminar

Time: Friday, 1 March 2013, 1:00 – 2:00 PM

Location: 238 Derrick Hall

Title: An overview of character degree graphs of finite groups

Speaker: Dr. Mark Lewis, Department of Mathematics, Kent State University

### **Abstract:**

We will show how to associate graphs with the set of character degrees of a finite group. Two obvious questions to ask are (1) what graphs arise this way and (2) if the graph  $\Gamma$  is associated to the group  $G$ , what can be said about the structure of  $G$ ? We will survey the known results and open questions regarding these questions. We will also show how these graphs can be applied to other results regarding character degrees.