

# ALGEBRA SEMINAR

## *Introduction to group representations, I*

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ABSTRACT: This mini-course, consisting of four talks, will give a leisurely paced introduction to the representation theory of finite groups over the complex numbers. The lectures are primarily aimed at first-year graduate students currently taking the Abstract Algebra course.

I will begin by explaining the key definitions and some examples in the first lecture. In subsequent lectures, I plan to state (but not prove) a few fundamental results and illustrate them with examples. Time permitting, I may also mention some applications of group representation theory and I might end the series with a brief outlook into the newly emerging field of “quantum groups”.

MONDAY, OCTOBER 21, 2013

1:40 – 2:30 PM

ROOM 617, WACHMAN HALL  
DEPARTMENT OF MATHEMATICS