



# GEOMETRY, TOPOLOGY, AND PHYSICS SEMINAR

## Much ado about $N=2$

David Morrison  
UCSB

Friday, October 16th, 2009, 4:00 p.m.  
Room 6635 South Hall

**Abstract:** I will continue to review the recent progress in four-dimensional  $N=2$  supersymmetric field theories. In this lecture, I will concentrate on the conformal building blocks and associated dualities introduced by Gaiotto in arXiv:0904.2715. If time permits, I will also discuss how these constructions are related to the study of wall-crossing formulas made by Gaiotto, Moore, and Neitzke.

This lecture will give an overview of these developments, which will be described in more detail in future lectures of this seminar.