



# UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

## COLLOQUIUM

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**Dr. Daniel Ruberman**  
(Brandeis University)

“Applications of Heegaard-Floer theory to knot and link concordance”

**Abstract:**

Heegaard-Floer theory is a powerful collection of tools developed over the last 10 years by Ozsvath and Szabo. I will discuss the use of numerical invariants derived from Heegaard-Floer in investigating concordance of links. This is the question of whether two links in the 3- sphere form the boundary of a union of cylinders in 4-space. One main theme is the relationship between concordance of a link of two or more components, and concordance of the individual components.

**Wednesday, December 7<sup>th</sup>, 2011**

**Surge 284**

**4:10-5:00pm**

*Tea Time at 3:40pm*