



**Speaker:** Anthony Licata  
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Wednesday, November 2, 2011  
4:15 PM  
117 Hayes-Healy Hall

**Title:** Higher representation theory (with application)

**Abstract:**

Categorification is currently a popular mathematical word, especially in those parts of representation theory and low dimensional topology concerned with Khovanov homology and other quantum invariants.

In fact, some of the important foundational ideas of categorification were developed with a mind towards applications to other parts of mathematics, such as finite group theory and algebraic geometry. We'll attempt to motivate this subject by describing some of the problems categorified mathematics has been used to solve.