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**Speaker:** Alexander Diaz Lopez  
University of Notre Dame

Tuesday, April 1, 2014  
12:00pm  
125 Hayes-Healy Hall

**Title:** W-Graphs over Non-commutative Rings

**Abstract:**

In 1979, Kazhdan and Lusztig studied Hecke algebras, which arise as endomorphism algebras of representations of groups induced by representations of subgroups. Later, they define representations of Hecke algebras indexed by left cells of Coxeter groups. In my talk, I will construct representations of Hecke algebras on quotient path algebras over suitable quivers (coming from  $W$ -graphs), and discuss their relation with the representations indexed by left cells.