



Speaker: Matthew Dyer
University of Notre Dame

Monday, February 3, 2014
12:00 PM
125 Hayes-Healy Hall

Title: Weak order on Coxeter groups

Abstract:

It is known that the weak (right) order makes a Coxeter group into a complete meet semilattice. We describe a proof of this, involving a closure operator on the root system, which makes it possible to show, more strongly, that the weak order embeds as an order ideal in a complete ortholattice. This property of weak order, suitably abstracted, may be taken as the main axiom for a class of groupoids with root systems which will be discussed in subsequent talks in this seminar.