

**Number theory and Representation  
Theory seminar, Fall 2007  
East Hall 4096  
November 26, 3:10-5:00pm  
(tea break at 4pm)**

# **Coxeter groups, their subgroups, and Kac-Moody algebras**

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## **Abstract**

We describe properties of reflection subgroups (i.e., subgroups generated by reflections) in Coxeter groups and apply our results to investigate regular subalgebras of Kac-Moody algebras.