

# Mathematics Graduate Seminar

**Mr. Jonathan Lee  
Memorial University**

**Thursday, January 12, 2017  
1:00p.m., HH-3017**

## *Construction of the Lamplighter Group*

### **Abstract:**

The Lamplighter Group is the name given to the restricted wreath product  $\mathbb{Z}/2\mathbb{Z} \wr \mathbb{Z}$ . In this talk we will explain the reason behind this name and offer a figurative description of the group, followed by an explanation of how a wreath product, and the Lamplighter Group in particular, is constructed as an outer semidirect product. We will then introduce the problem which motivates our study of it.