

Thesis Presentation

**Matthew Hunt,
Memorial University**

**Thursday, August 8, 2013
11:00a.m., HH 3017**

***PHASE SPACE OF EXTREMAL MELVIN-KERR-NEWMAN
BLACK HOLES***

Abstract:

The extremal black hole uniqueness theorems are reviewed, then the phase space of the extremal Melvin-Kerr-Newman black hole is examined with respect to these theorems. This will be done by explicitly constructing a mapping from the phase space of EMKN horizons into that of EKN horizons. We then examine how the varying of the magnetic field parameter forces an evolution through that phase space.