PHYSICS DEPARTMENT  
COLLEGE OF ARTS AND SCIENCES  

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE WOMEN  

APPLICATION DEADLINE: 03/01/2018  

PROJECT TITLE: Analyzing Data from CERN's LHCb Experiment  

Michael D Sokoloff  
411 Geology-Physics Building  
Physics Department, ML0011  
513 556-0533  
mike.sokoloff@uc.edu  

Project Description  

The student will analyze data from the LHCb experiment at CERN. The student will learn some particle physics and how to use the ROOT framework (using the original C++ interface or Python bindings) to study decays of particles containing heavy quarks. We are looking for a student who has completed at least the usual sophomore level physics courses, but will also consider very well motivated students with excellent performance in freshman physics and math courses. No prior experience with computer programming is necessary -- the student will be able to master all the programming tools required to succeed.