PHYSICS DEPARTMENT  
COLLEGE OF ARTS AND SCIENCES

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE WOMEN

APPLICATION DEADLINE: 03/01/2017

PROJECT TITLE: Analyzing Data from CERN's LHCb Experiment

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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.