

**DEPARTMENT OF PHYSICS
McMicken-College of Arts & Sciences**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: MARCH 1, 2005

The Department of Physics is pleased to offer the following research project for the summer of 2005. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and if possible, develop a timetable for the twelve-week research period.

Experimental Particle Physics at Babar

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A student could work in our experimental particle physics group, probably in Cincinnati, possibly at SLAC (pending availability of travel funds from the NSF). The work in Cincinnati would probably be analysis related to the Babar experiment at SLAC. Optimally, the student would have significant experience with a real programming language such as FORTRAN, C, or C++. Some background in physics would be useful and good mathematical skills necessary. Similar work would be done at SLAC. In addition, a student would participate in taking data with the Babar detector, and could almost certainly participate fully in the activities organized by SLAC for its summer students (who are also undergraduates).