Postdoc positions  
on the EXO experiment at Stanford

The neutrino physics group in the Physics Department at Stanford is seeking qualified applicants for one or two postdoctoral positions on EXO. EXO is a program to search for neutrino-less double-beta decay in 136-Xe and discover the neutrino mass scale. The first phase detector, EXO-200, is ultra-low background liquid Xenon detector using 200kg of xenon enriched to 80% grade in the isotope 136. EXO-200 is about to start taking data and the successful candidate could play a leading role in the physics analysis.

In parallel with this effort the EXO collaboration and the Stanford group in particular are pursuing a vigorous R&D program towards a technique to extract and identify the barium daughter of the double-beta decay of xenon. The successful candidate could also participate in this effort that includes topics in nuclear/particle detectors, ion trapping and guiding and surface science. Part of this R&D is directed towards a system where the xenon from a high pressure TPC is ejected through a supersonic nozzle and the Ba ions are separated from the neutral gas flow and guided to an identification device.

Candidates should have a background in nuclear/particle physics or in AMO/ion trapping and transport. While this search is primarily targeted at the postdoc level, more senior appointments at the Research Associate level are possible, should exceptional candidates at this level be available. We particularly encourage candidates from under-represented minorities to apply.

To apply please send your statement of interest with cv and list of publications to Ms. Marcia Keating, Varian Physics, Stanford CA 94305-4060 by letter or email (mkeating@stanford.edu). Candidates are also responsible to have three recommendation letter sent separately to the same address. Applications will be accepted until the position is filled.