

The Department of Physics at the University of California, Berkeley invites applications for a postdoctoral researcher position in neutrino physics, to work on the SNO+ experiment and on R&D for future neutrino detectors, such as the water-based liquid scintillator experiment, THEIA.

SNO+ is a large-scale liquid scintillator experiment located in SNOLAB, Canada. The primary physics goal is a world-leading search for neutrinoless double beta decay; SNO+ has a broad program of additional physics, including solar and geo neutrinos. We expect to start taking physics data in summer 2016. The Berkeley group focuses on detector commissioning, operations, and calibrations as well as simulations and analysis. The successful candidate should expect to take a lead role in detector operations and analysis, as well as R&D for future phases.

THEIA is a proposed 50 – 100 kton water-based liquid scintillator detector, which would offer a broad program of physics ranging from long-baseline physics, to astrophysics (solar and supernova neutrinos), to proton decay, and even a potential neutrinoless double beta decay search. R&D at Berkeley includes the CheSS (Cherenkov Scintillation Separation) prototype, and collaborative effort towards the TARDIS demonstrator, which will be deployed at FNAL.

The anticipated start date is August 1, 2016. Candidates should have a Ph.D. in nuclear or particle physics, nuclear engineering, or equivalent. Review of applications will begin immediately and continue until the position has been filled. Apply by June 1 for full consideration, although the position will remain open until filled.

Applications, including a CV, list of publications, brief statement of research interests and experience, and three letters of reference should be sent to:
Professor Gabriel D. Orebi Gann, gabrielog@berkeley.edu

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