



## **Sterile Neutrinos at the Crossroads – SNAC 11**

The Virginia Tech Center for Neutrino Physics (VT-CNP) will host an international workshop on the theme: 'Sterile Neutrinos at the Crossroads' at Virginia Tech from September 26-28, 2011. The idea for this workshop was triggered by the recent accumulation of possible indications of a sterile neutrino with broad relevance to neighboring fields in theory and experiment.

The goal of the workshop is to bring to together experts in the various sub-disciplines, such as nuclear theory (reactor fluxes, nucleosynthesis) and experiment (reactor experiments, flux measurements, LSND/Karmen, MiniBooNE), cosmology (WMAP/Planck), neutrino phenomenology (global fits, alternative models), in order to critically review the evidence for and against sterile neutrinos and to discuss the need or otherwise to pursue dedicated new experiments and possibly new strategies. The following topics will be covered

- Experimental evidence for sterile neutrinos
- Reactor neutrinos: past & present
- Theoretical motivation & phenomenological alternatives to sterile neutrinos
- Cosmology & astrophysics as probes of sterile neutrinos
- Future experiments

The program will comprise invited plenary talks. Contributions in the form of posters, especially by students are strongly encouraged. There will be funds available to support student participation. The workshop also will feature a tour of the Kimballton Underground Research Facility.

Due to the limited space available early registration is encouraged. Registration will open April 15th 2011. For more information and continued updates please visit <http://www.cpe.vt.edu/snac/>

For questions, please, send email to [snac@phys.vt.edu](mailto:snac@phys.vt.edu).

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