

## **UCN User Facility at LANSCE**

A spallation-driven solid-deuterium superthermal ultracold neutron (UCN) source is currently being constructed/commissioned at the Los Alamos Neutron Science Center (LANSCE) as part of the UCNA experiment. In this UCN source, the neutrons are produced by the LANSCE proton beam incident on a tungsten spallation target, and are cooled by superthermal process in solid deuterium. Once completed, this UCN source can be turned into a general user facility, which will provide a unique opportunity to perform various fundamental neutron physics experiments using UCN in a low background environment. Possible experiments include various beta decay correlation measurements and neutron lifetime measurements.