

What's "Happ'nin" at Kentucky

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The University of Kentucky Accelerator Laboratory has achieved ~1800 hours of beam-on-target since the last WINS meeting, and the research group has worked to upgrade our data acquisition and neutron/gamma-ray detection systems. Specifically, over the last year, angular distribution measurements of neutron elastic scattering on carbon-13 and neutron inelastic scattering on lithium-7 enriched targets were performed. CAEN V1730 and V1782 modules were incorporated into new data acquisition and analysis systems using COMPASS and ROOT. We are awaiting delivery of locally-annealable HPGe detectors in order to restore our ability to perform neutron-induced gamma-gamma coincidence measurements. The status of the new datasets, quirks of the data acquisition system, future projects, and outlook for the laboratory will be discussed

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Track Classification: Recent Experimental Results of Elastic and Inelastic Neutron Scattering