**Hybrid Physics Division Seminar**

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*COHERENT neutrino program at the ORNL Spallation Neutron Source (SNS)*

**Abstract:**

SNS at ORNL is the world’s brightest pulsed neutrino source. Neutrino produced as result of decay of pions and muons generated in the mercury target by high intensity proton beam. COHERENT collaboration established a diverse neutrino program at the SNS utilizing favorable background conditions.  In my talk I will review the first observation of Coherent Elastic Neutrino Nucleus Scattering (CEvNS) and present an experimental program. The focus of my talk will be how we can use accurate neutrino measurements at the SNS measurements to test the Standard Model of particle physics and provide input into nuclei physics and astrophysics.

Wednesday, April 12th @ 11 AM – 12 PM

CEBAF Center F113

[**Zoom Link Here**](https://jlab-org.zoomgov.com/j/1600656386?pwd=L2NYbWlITkZzSjc4NGl0eXFsTURLdz09)