

Talk 3: The Spallation Neutron Source at ORNL: performance and potential

Wednesday, 12 June 2024 10:07 (12 minutes)

Abstract:

The Spallation Neutron Source (SNS) at Oak Ridge National Laboratory (ORNL), presently the highest power spallation neutron source worldwide, is in the final stages of its power upgrade from 1.4 to 2.8 MW. I will discuss the facility performance with particular focus on the opportunities offered by the high power to support applications in addition to the primary neutron scattering mission. A few kW of extracted beam can support applications such as irradiation and isotope production, and a portfolio of fundamental physics experiments.

CV:

Fulvia Pilat is the Research Accelerator Director and the Facility Operations Manager at the Spallation Neutron Source at ORNL. Before joining ORNL in late 2017 she was the Deputy ALD for Accelerators at JLAB. Fulvia is an accelerator physicist, and worked at CERN, LANL, SSC, BNL and JLAB. Fulvia is a Fellow of the American Physical Society. She has served as a chair and reviewer in many Department of Energy (DOE), National Science Foundation (NSF), National Academy of Science (NAS) and International Review Committees.

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