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University-Based Compact Neutron Sources in China

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Abstract

The ongoing development of China's neutron sources with a goal of providing national experimental platforms to users for multidisciplinary fundamental research impacts universities on many fronts. This includes graduate education and user training, R&D scope, and academic strategic planning. Here, we describe a LENS*-like compact accelerator-driven neutron source, CPHS, of Tsinghua University in Beijing and a research program associated with the Sino-French Institute of Nuclear Engineering and Technology of Sun Yat-Sen University in Guangzhou and highlight the progress in student training and neutron-scattering instrumentation development through joint programs and international collaborations.

*The Low-Energy Neutron Source of Indiana University, USA.