

Capacity building and PIE research on CSNS remote handling sample preparation and mechanical property testing

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The CSNS target operates in a composite environment of high-energy protons 1.6GeV and fast neutrons meV-GeV, and the evaluation of its operating status is crucial. In order to study the irradiation damage of the target, especially to provide more data for power upgrade, the CSNS target station PIE team has developed a small sample teleoperation preparation and mechanical properties testing system that can operate in the hot cell. This report will introduce the progress and research plans of CSNS in PIE research on the core components of the target station.

Primary authors: YIN, Wen (Institute of High Energy Physics, CAS); 赵, 崇光 (中国科学院高能物理研究所); WEI, SHAOHONG (Institute of High Energy Physics, Chinese Academy of Sciences); LI, Zhiduo (IHEP/CSNS); ZHANG, Ruiqiang (Institute of High Energy Physics, Chinese Academy of Sciences (CAS)); LIANG, Tianjiao (Institute of High Energy Physics, Chinese Academy of Sciences)

Presenter: 赵, 崇光 (中国科学院高能物理研究所)

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