China has built a world-class spallation neutron source (CSNS) to provide users a neutron scattering platform with high flux, wide wavelength range and high efficiency.

The layout of CSNS

To be integrated into neutron instrument control, a new DAQ software for neutron beam monitor is developed, called NEROS (Neutron Event Readout System). NEROS is based on EPICS V4 and a unified data format for CSNS neutron beam monitor is defined.

In the future, the thread of analysis will be split into several parallelized threads to improve NEROS performance.