

Time-of-Flight Diffraction in Steca for the CSNS-EMD Detector

Steca (Stress and Texture Calculator) was originally designed for monochromatic measurements on flat area detectors. Extending it to the time-of-flight (ToF) modality of the EMD at CSNS requires a radically different treatment: a pulsed, polychromatic neutron beam makes the pattern energy-dispersive, and the lattice spacing d is sampled through the neutron arrival time rather than through the detector angle.

This talk reports the status of the collaboration with the EMD team and the resulting implementation in Steca.