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Time-resolved XAS beamline at SLRI

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Abstract

This report presents the optical layout and the commissioning results of the energy dispersive X-ray absorption spectroscopy beamline at the Synchrotron Light Research Institute in Thailand. The beamline employs a bent Si(111) crystal as an energy dispersive monochromator (EDM). The beamline utilizes radiation from a bending magnet of 1.2 GeV storage ring. The EDM covers X-rays with photon energy from 3 to 8 keV. A linear image NMOS sensor consisting of 1024-element photodiode allows detection in transmission mode with a detector readout time of less than 100 ms, and thus time-resolved may be carried out at this beamline.

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