

Soft X-Ray Trial Experiment at BL-4

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Abstract

We have succeeded in the measurement on Si and S *K*-edge EXAFS by transmission mode at BL-4 under atmospheric pressure. The EXAFS oscillations up to k of 15.0 \AA^{-1} for Si *K*-edge and 12.5 \AA^{-1} for S *K*-edge can be used in the data analysis. The performance of BL-4 is that photon flux is 10^9 photons/sec/100mA and energy resolution is at least 2000 in 1800-2500eV. BL-4 has enough ability for soft x-ray EXAFS measurements even at the energy range from 1750 to 3200eV.