

SYNCHROTRON THAILAND CENTRAL LAB

PHOTOEMISSION ELECTRON MICROSCOPY



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ii. Imaging on energy dispersion plane at exit of analyser























BL3.2Ub: PEEM at SLRI

Photoemission Electron Microscopy (PEEM)



Technical information

source	planar halbach-type undulator (U60) 41 periods. 0.5467 Tesla at gap 26.5mm
monochromator & energy range	varied line spacing plane grating 40-160eV and 220-1040eV
energy resolution & flux	ΔΕ/Ε =10 ⁻⁵ at 100eV flux: 10 ¹⁰ photons/sec
beam size (HxV)	0.8 mm x 0.1 mm
end station	Elmitec SPELEEM
Technique	XAS, PES, APRES MEM, LEEM, LEED

- Photon polarization of this beamline is horizontally linear therefore it is NOT possible for XMCD, XMLD, and magnetic contrast imaging
- End station is also equipped with ion sputtering gun and residual gas analyser





Photoemission Electron Microscopy (PEEM)



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PEEM)



