

Polychromatic Sources for Modular X-ray Spectroscopy Setups

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We will report recent developments in the area of X-ray spectroscopy setups for laboratory and synchrotron use. Application of polychromatic sources and polycapillary focusing optics will be evaluated in the view of modular experiments including simultaneous detection of X-ray emission and X-ray absorption signals. System performances will be given in detail with recent developments in the measurements of liquid samples employing dedicated cells and liquid-jets. Presented results will be discussed in view of future experiments at large-scale facilities such as ELI in Prague or SOLARIS synchrotron in Krakow.