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## Advancing Soft X-ray Spectroscopy with a High-Efficiency TES Spectrometer at SSRL

*Thursday 29 August 2024 17:45 (15 minutes)* 

At SSRL, we employ a transition-edge sensor (TES) spectrometer for soft X-ray spectroscopy, including XAS, XES, and RIXS. While offering a moderate energy resolution of ~1.5 eV FWHM, the TES excels in detection efficiency and broad spectral coverage. These strengths have proven valuable in tackling challenging samples, such as those susceptible to radiation damage and extremely dilute frozen solutions (less than 1 mM), at a wiggler beamline. Importantly, the TES spectrometer is available to the general user program, enabling a wide range of scientific investigations. With the recent relocation of the TES spectrometer to an undulator beamline, our ongoing research aims to further explore and exploit the innovative capabilities of this spectrometer.

## I plan to submit also conference proceedings

No

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