

The Spectroscopy and Coherent Scattering Instrument (SCS) at European XFEL

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Coherent Scattering (SCS) instrument will be dedicated to the study of electronic, spin and atomic structures on the nanoscale using soft X-rays. It aims to enable users to explore excited state dynamics on ultrafast time scales and to unravel the function of complex materials. Areas of application are for example functional materials science, nano-composite and colloidal systems relevant to catalysis and energy science or larger biological specimens in life science. In order to provide a wide platform for spectroscopy and coherent scattering techniques the SCS concept implies modular instrumentation starting from the x-ray optical layout to the end stations and detectors. The current state of the instrument design will be presented.