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KWS-X: The new SAXS/WAXS Laboratory Beamline at JCNS-MLZ

Monday, 20 March 2023 16:00 (2 hours)

The new customized SAXS/WAXS instrument from XENOCs have been installed in the JCNS X-ray laboratory from the end of 2021. As a young member of our small angle scattering instrument by using x ray as beam, the new instrument is equipped with a high flux metal-jet source and a moveable Eiger 2R4M SAXS detector. With additional 4-axis motorized WAXS detector and Bonse-Hart USAXS the scattering vector q can cover a wide area from 0.0002 to 7 \AA^{-1} . Compared to other instruments, it also comprises a large sample environment station that can be used with ambient pressure conditions. A large number of sample environmental accessories make it possible to perform experiments at temperatures from -150°C to 1000°C, under shear, tensile, RheoSAXS, SEC-SAXS, GISAXS/GIWAXS etc. As a very powerful complementary instrument to SANS and other neutron-related instruments, it will strongly support our users' work in the MLZ.

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