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

*Friday, 9 December 2022 15:30 (1h 30m)*

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  $\text{\AA}^{-1}$ . 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, etc. The instrument is under commissioning and is expected to be in user operation in Autumn 2022.

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