

SAXSess – An Analytical Tool for Nanostructured Materials

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Small-angle X-ray scattering (SAXS) is a well established method for structural investigations in the size regime of 1 nm to 50 nm. With the new laboratory instrument, SAXSess, structural informations can be acquired, such as

- (1) Size distribution
- (2) Particle shape and internal structure
- (3) Surface-to-volume ratio
- (4) Degree of crystallinity

One unique feature of this instrument is its ability to simultaneously measure up to wide-angles (of 40°) without the need for realignment works. With that it takes just one experiment to know the particle structure and the phase state of its constituents. Thus, a huge variety of applications can be addressed in quality control and research.

In this presentation we show a few examples of the above mentioned application areas.

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