

Small Angle X-Ray Scattering (SAXS) with NanoSTAR

– Principles & Applications

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Nanostructure investigation using small-angle x-ray scattering on a lab scale requires high standards for both the intensity and the divergence of the primary beam. The NanoSTAR system has always provided high-end technical solutions to this goal.

The first part gives an overview of the system including recent improvements (Incoatec micro-focus source (I μ S) with integrated Montel optics, VÅNTEC-2000 detector).

Selected applications in the second part will include:

- Polymeric anorganic (Si & Zr) oxide composites (including data fitting and interpretation)
- Biological Macromolecule Urate Oxydase (including data fitting and interpretation)
- GISAXS measurements – comparison Lab-Synchrotron