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QtiSAS: SA(N)S data reduction and analysis platform.

Friday 6 December 2024 13:45 (3 hours)

QTISAS is a versatile software package designed for the analysis and modeling of small-angle scattering (SAS) data, specifically for neutron and X-ray scattering experiments. Built with a user-friendly graphical interface and advanced computational algorithms, QTISAS facilitates the interpretation of scattering data from diverse sample types, including complex fluids, polymers, biological macromolecules, and nanomaterials. The software supports various modeling approaches, such as form factor fitting, structure factor analysis, enabling precise determination of particle sizes, shapes, and interparticle interactions. QTISAS integrates data reduction, visualization, and fitting processes within a single platform, streamlining workflows for both beginners and experienced researchers. Key features include support for multi-contrast datasets, batch processing, and automated fitting routines, making QTISAS an essential tool for researchers seeking reliable and high-throughput analysis of scattering data. The software is constantly updated to incorporate the latest scientific developments, ensuring compatibility with modern scattering techniques and experimental setups.

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