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Combining USANS and SANS for micro and nanoscale structural characterisation

Ultra-small and small and angle neutron scattering (USANS and SANS) are versatile techniques for investigating the micro and nanoscale structure of materials such as food, surfactants, polymers, colloids, metals, minerals, and emulsions. These techniques have been exceptionally useful for studying complex materials of industrial importance in recent years. Various examples have emerged where combining USANS and SANS data have provided valuable knowledge.

Australia is the home of state of the art reactor based USANS and SANS instruments at the ACNS, ANSTO. Combining data from QUOKKA-SANS/BILBY-SANS with KOOKABURRA-USANS instruments provide a tool to study structures from 1 nm to $>10 \mu$. In this talk we discuss some of the recent examples where combined USANS and SANS data have provided valuable understanding for various complex systems.

Topic

Neutron Instruments & Techniques

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