

Bonse-Hart USANS, the missing link for hierarchical materials at MLZ?

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Hierarchical materials, which contain structural organisation at many different length scales, are an important aspect of biomaterials and natural systems. Recent developments in technology, for example additive manufacturing, are enabled by the power of structural hierarchies. A Bonse-Hart diffractometer provides an effective means of bridging the gap between real space, imaging, and reciprocal space, small angle scattering, in structural investigations of isotropic materials at micron plus length-scales. The aim of this project is to complement existing and proposed instrumentation at the MLZ in a way that expands the relevance of neutron scattering for industrial applications.

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