

Small-angle scattering for large-scale structures

Sebastian Busch¹

¹ *German Engineering Materials Science Centre (GEMS) at Heinz Maier-Leibnitz Zentrum (MLZ), Garching & Helmholtz-Zentrum Geesthacht GmbH*

When molecules cannot be crystallized -- or their structure could be deformed in the process -- small-angle scattering (SAS) of neutrons and X-rays can still determine their overall size and shape on the nanometer scale. We will discuss the origin of SAS scattering, what one can learn from it, and how it is possible to make parts invisible -- and how all of this can be used for biological structure determination.