Contribution ID: **13** Type: **Invited speakers**

Hard problems in soft matter - a not quite random walk through 30 years of soft matter research with neutrons (remote)

Monday, 26 September 2022 14:00 (25 minutes)

The small-angle instruments at ILL have been instrumental for our soft matter research during the last 30 years. I will illustrate this with a number of research projects where SANS has been key in elucidating structural properties of various soft matter systems, covering diverse topics such as the formation of polymerlike micelles, the kinetics of the micelle-to-vesicle transition, gel structures formed in an arrested spinodal decomposition in solutions of globular proteins, and the response of soft microgels to high packing densities. Particular attention will be given to the importance of interdisciplinary interactions and the role of computer simulations when attempting to interpret and understand results obtained with complex soft matter systems.

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Session Classification: Talks