Contribution ID: **32** Type: **not specified**

Beyond the basics - complex sample environment for neutron spectroscopy

Tuesday, 19 October 2021 10:35 (25 minutes)

Neutron spectroscopic methods are indispensable tools to study dynamical processes such as diffusion, magnetic excitations and even electronic excitations.
The small signal size and the flux limitation of neutron sources result in long counting times. Moreover, the requirement of special sample environment to perform spectroscopic studies at extreme conditions affects the signal to noise ratio negatively and efforts that counteract the direct and indirect negative effects caused by complex sample environment equipment are worth to consider.
I will give an overview over the efforts that have been done in the last years and present exemplary solutions that have been adapted.

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Session Classification: Providing the right experimental conditions - for real (Chair: Arno Hiess)