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Deuteration Service for Users of the MLZ Neutron Scattering Instruments

Friday 9 December 2022 15:30 (1h 30m)

In order to provide users of the neutron scattering instruments at the MLZ with the appropriate partially or fully deuterated materials the JCNS has started a deuteration service, primarily from our core competence areas of polymers and ethoxylation.

This year we have held our first call for synthesis proposals. During the MLZ user meeting we wish to present some of the results of this call and inform the users about our upcoming calls.

We offer the deuteration of various polymers, surfactants and a variety of small molecules. Recent advances include the synthesis of deuterated thermoresponsive polymers such as PNIPAM and other polymers of the acrylate and methacrylate family. We have also achieved the synthesis of fully deuterated low molecular weight PEGs. Finally, we wish to present the deuteration of various surfactants including TWEEN 20 and different alcohol ethoxylates.

We look forward to talk with users of the MLZ neutron scattering instruments about their needs in terms of deuterated compounds and are also open to discuss longer term cooperation.

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