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New sample environments at the cold neutron chopper spectrometer TOFTOF

Tuesday 21 March 2023 16:00 (2 hours)

We will discuss the different new sample environment at the cold neutron chopper spectrometer TOFTOF. For example the combination of in-situ Raman and neutron spectroscopy is very powerful in order to investigate the molecular dynamics and chemical reactions inside a sample at the same time. For this purpose we will introduce our new sample environments to combine quasi elastic (QENS) and inelastic (INS) neutron spectroscopy with Raman spectroscopy. Additional to the Raman setup we will introduce a humidity chamber which can also be combined together with the Raman spectrometer. We will discuss also introduce also ideas for a laser pump-probe and a hydrogen gas dosing system.

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