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Extending MIEZE spectroscopy towards thermal wavelengths

Recent advances in neutron instrumentation have been motivated by a need for highest energy resolution over a wide range of momentum transfers to investigate new and exotic ground states without long-range order or well defined excitations, such as for example quantum spin liquids. One line of development has been towards multi-analyzer spectrometers, such as the CAMEA spectrometer, which has recently gone into user operation at the Paul Scherrer Institute.

Here, we are suggesting an extension of the MIEZE technique towards shorter wavelengths, that will increase the accessible energy and momentum transfers at the spectrometer RESEDA, towards 20.5meV and 3Å⁻¹ respectively.

Session

Instrumentation

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