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The Resonant Spin-Echo Spectrometer RESEDA

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The MIEZE (Modulation of Intensity with Zero Effort) technique is a high-resolution spin-echo time-of-flight technique, for which all spin manipulations are carried out upstream of the sample, in contrast to classical neutron spin-echo spectroscopy. Perhaps most intriguingly, this technique is robust against depolarizing conditions at the sample position.
Therefore, magnetic, or strongly incoherently scattering samples can easily be measured without loss of signal. The spectrometer RESEDA is being further optimized for measurements in a small angle geometry. We present the current status of the newly installed superconducting solenoids as part of the RF flippers to significantly extend the dynamic range as well as the development and installation of a new detector on a translation stage within a new larger SANS-type vacuum vessel for flexibility with angular coverage and resolution.

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