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RESEDA - Resonant spin-echo for diverse application

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The neutron spin echo spectrometer RESEDA (Resonance Spin Echo for Diverse Applications) is dedicated to the exploration of slow dynamics and fluctuations in hard and soft condensed matter systems. RESEDA is located at the end position of NL5-S in the Neutron Guide Hall West. Following a major revision and upgrade, RESEDA now permits longitudinal NRSE (LNRSE) spectroscopy as well as longitudinal MIEZE (Modulation of Intensity with zero effort) operation with sub- μeV energy resolution and an unprecedented dynamic range. When operated as a MIEZE spectrometer, data may be recorded readily in depolarizing sample environments, such as very large magnetic fields. Likewise, depolarizing substances, such as ferromagnets or superconductors, strong incoherent scattering materials containing, for instance, hydrogen may be studied.

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