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Commissioning of the 'Energy research with Neutrons' option at MLZ.

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The Energy research with Neutrons (ErwiN) instrument is meant to be used for the investigation of energy storage materials, also integrated in complete components and under real operating conditions. Thus, it is possible to scan a large parameter space (e.g. temperature, state of charge, charge rate, fatigue degree) for the investigation of modern functional materials in kinetic and time-resolved experiments. Diffraction data will be obtained from the entire sample volume or in a spatially resolved mode from individual parts of the sample.
The commissioning of the ErwiN instrument is presented here. The commissioning and integration of ErwiN will enhance the attractiveness for a wider community in energy research as well as materials science while novel methods for the neutron science community will be developed.

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