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Responding a challenge: remote access and digital twins at MLZ

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The COVID-19 crisis has created new challenges worldwide. On the plus side, it has been a catalyst for digitalization, also at the MLZ. Besides providing remote access to our instrument control- and data analysis systems, online training has become increasingly important. In January 2021, the first lab course with students were carried out online, using so-called Digital Twins. A Digital Twin is a virtual representation of an instrument, in particular a simulation of the neutron scattering at the sample with varying input parameters. This talk gives an overview of the current state of digital twinning at MLZ, including a live demonstration and future prospects regarding using Digital Twins beyond educational purposes.

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