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TOFTOF –actual status and renewal concept

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The cold neutron time-of-flight chopper spectrometer TOFTOF is versatile to address large parts of the relevant momentum and energy transfer range, with a tunable energy resolution, and it has a strong user base in the disordered materials community (materials sciences, soft matter, life sciences, magnetic materials). Here we want to discuss the actual status of TOFTOF and the expected influence of the broken cold source of the FRM II on TOFTOF.

The instrument is in operation since 2005, and some critical components (chopper system, detector electronics) are likely to ultimately fail, with no possibility for repair or spare part supply. At the same time, advances in neutron optics technology and the use of position sensitive detectors will be made use of to further enhance the attractiveness of the instrument to an even broader user base. Both points shows that a rebuild is needed to ensure ongoing TOFTOF user operation with a state of the art instrument. Here we want to discuss our plans for the rebuild of the Instrument TOFTOF.

Primary author: WOLF, Marcell (TUM)

Co-author: GARVEY, Christopher (MLZ)

Presenter: WOLF, Marcell (TUM)

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