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## The direct geometry cold chopper spectrometer TOFTOF

*Tuesday, 5 December 2023 14:00 (3 hours)*

TOFTOF is a direct geometry disc-chopper time-of-flight spectrometer. TOFTOF represents a versatile instrument combining high energy resolution, high neutron flux (also at short wavelengths), and an excellent signal-to-background ratio. It is perfectly suited for inelastic and quasielastic neutron scattering and scientific topics include e.g.:

- Diffusion in liquid metals and alloys
- Hydrogen dynamics in soft matter systems such as molecular liquids, polymer melts or colloids
- Molecular magnetism, quantum criticality in heavy fermion compounds, low energy excitations in multiferroic materials and novel magnetic phases
- Dynamic properties of energy storage materials, such as solid state hydrogen storage materials, electrolytes, or gas storage materials
- Energy-resolved quasi-elastic neutron scattering on proteins, vesicles, and biological materials
- Kinetic studies of hydrogen binding
- Aging effects in disordered media and low frequency dynamics in glasses
- Biological activity and functionality of proteins and cells under pressure

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**Session Classification:** Poster Session

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