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## **TOPAS: time-of-flight spectrometer with polarization analysis**

*Friday 6 December 2024 13:45 (3 hours)*

We present the time-of-flight spectrometer TOPAS being assembled in the neutron guide hall east. It is optimized for mapping excitations in large areas of the reciprocal space utilizing thermal neutrons. The chopper system is designed to deliver neutrons in the thermal energy range, which allows for energy transfers up to 50 meV on the neutron energy loss side, and resolution around 5% of the incoming neutrons energy. The instrument includes polarization analysis based on a large He<sup>3</sup> cell in the primary beam and another He<sup>3</sup> cell embedded in the Magic-PASTIS system as the analyzer.

The contribution explains in more detail the design ideas, recent developments, technical solutions and parameters, as well as plans for future measurements at the instrument.

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