## MLZ User Meeting 2019



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## **NEPOMUC** – Positron Beam Facility and Instruments

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The neutron induced positron source in Munich (NEPOMUC) at FRM II/MLZ provides a positron beam with the world highest intensity of about 10<sup>9</sup> moderated positrons per second. The instruments at the positron beam facility are operated as user facility. Low-energy positron beams are applied in a large variety of experiments in condensed matter physics and materials science as well as in atomic and particle physics. The experiments performed at NEPOMUC comprise surface studies, depth dependent defect spectroscopy and fundamental research with leptonic systems. In this contribution, a review of the status of the positron beam facility with its instrumentation is given. The performance of the (remoderated) positron bam is presented and several positron beam experiments are highlighted. Recent and future developments for further improving the performance of positron beam experiments are discussed.

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