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Status of the Positron Beam Facility and New Developments at NEPOMUC

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The neutron induced positron source NEPOMUC at FRM II/MLZ provides the world's highest intensity of 10^9 moderated positrons per second. The primary energy of the positron beam is set to 1 keV. For the vast majority of user experiments, however, the brightness enhanced remoderated positron beam with a typical energy of 20 eV ($\sim 5 \times 10^7$ positrons per second) is used.

Within this contribution features of the positron beam provided by NEPOMUC and technical upgrades of the positron beam facility such as the improved remoderator stage and new high.stability power supplies for both, electric lenses and magnetic field coils for positron beam transport will be presented. An overview of current and future developments of positron instrumentation will be given. Finally, various options of positron beam experiments, which are planned to be operated in the neutron guide hall east in the long term, will be discussed.

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