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A 500 MeV positron beam for channeling experiments at the Mainz Microtron MAMI

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A beam line for 500 MeV positrons is under construction at the applied physics area of the Mainz Microtron MAMI. Positrons will be created by pair conversion of bremsstrahlung, produced by the 855 MeV electron beam of MAMI in a 10 μm thick tungsten converter target, and energy selected by an outside open electron beam-line bending magnet. - Results of channeling calculations of 500 MeV positrons in a silicon single crystal at (110) planes will be presented.

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