

The polarized injection system for MESA

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Several extensions are being realized for the new MESA accelerator at Mainz university in comparison to the already existing injection system at MAMI. The new device is operating at 100keV beam energy and is called the Mesa Low-energy Beam Apparatus (MELBA). A new polarized source of the inverted type with increased extraction gradient has been build which is able to provide good beam quality at average currents of 1mA. MELBA also comprises a flexible spin rotation system and a double scattering Mott polarimeter. An overview of the different features is given and first results are discussed

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