

Progress On A Novel Ps Beam Source For Fundamental Physics Studies

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The status of the Low Particle Toroidal Accumulator (LEPTA) project at JINR is presented. The scheme of the facility and principles of operation are described. The results of the test experiments with circulating electron beam in LEPTA and progress of construction and test of the positron injector are discussed. The first experiment using directed o-Ps flux generated at LEPTA, which is under development presently, is considered. The goal of the experiment is measurement of p-Ps life time by interference of ortho- and para- states of Ps in magnetic field.