

Recent results from LEPS and status of LEPS2

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Collaboration

Abstract content

Two high-energy photon beamlines, LEPS and LEPS2, have been operated at SPring-8. In both beamlines, linearly polarized photon beams up to 2.9 GeV produced by laser-induced backward Compton scattering from 8 GeV electrons have been used to study quark-nuclear physics via the photoproduction of hadrons. The LEPS experiments have been carried out mainly using the forward charged-particle spectrometer since 2000, while in the new LEPS2 facility, two large acceptance detectors, the BGOegg calorimeter and the LEPS2 solenoid spectrometer, have been prepared to measure precisely both the production process and decay process simultaneously. We report on the recent LEPS results, including the Theta+ study and the coherent phi photoproduction from 4He, and on the current status of the LEPS2 experiments.

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