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Hadronic Physics at LEPS/SPring-8

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At the Laser Electron Photon facility at SPring-8 (LEPS), highly polarized photon beams in the energy range from 1.5 to 3.0 GeV are used for studying hadronic physics. The beams are produced by Compton scattering of laser photons from 8-GeV electrons in the SPring-8 storage ring synchrotron radiation source. The main detector setup has been a charged-particle spectrometer with a dipole magnet in the forward direction. We recently extended our kinematical coverage by adding a time projection chamber (TPC) surrounding the target. We have been studying various meson/baryon photoproduction reactions, including searching for the exotics such as Θ^+ pentaquark. For further upgrade of the beam and the detector, by constructing a new beamline at SPring-8, the LEPS2 project has been proposed. In this talk, recent results from the LEPS experiment are overviewed and future prospects are discussed.

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