

Baryon Spectroscopy at J-PARC

Friday 5 April 2024 13:00 (30 minutes)

It has been 15 years since J-PARC started operating. J-PARC is a research complex to cover particle, hadron, nuclear and condensed matter physics. At the Hadron Hall, intense pion and/or kaon beams up to 2 GeV/c enable us to study hypernucleus, exotic hadron and hyperon scattering. Recently the new beamline, names as the high-momentum beamline has been constructed to deliver primary protons up to 31 GeV/c. This opens us up to systematic research for Xi and charmed baryon spectroscopies with missing-mass technique. A multi-purpose spectrometer for spectroscopy experiments is now being constructed. I would like to present plans for spectroscopy experiments that will soon begin. If time permits, I will also talk about an upgrade plan for the experimental facility.

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