

Abstract Submitted
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Search for Θ^+ via $p(K^+, \pi^+)$ reaction at KEK-PS-E559 TOSHIYUKI TAKAHASHI, KEK, SEISHI DAIRAKU, Kyoto Univ., KEN'ICHI IMAI, Kyoto Univ., KOUJI MIWA, Kyoto Univ., TOMOFUMI NAGAE, KEK, DAISUKE NAKAJIMA, Univ. of Tokyo, SIN'YA SAWADA, KEK, MASASHI HAYATA, Kyoto Univ., KEK-PS-E559 COLLABORATION — The E559 aims to investigate the Θ^+ via the $p(K^+, \pi^+)$ reaction using a liquid H_2 target and a high resolution spectrometer, SKS, at the KEK-PS K6 beamline. Θ^+ would be identified in the missing mass spectrum with the resolution better than 2 MeV. In order to detect particles decayed from Θ^+ and improve the S/N ratio, a large acceptance range counter system is installed in front of the SKS. The commissioning and data-taking just started this May. In this talk, analysis status as well as experimental purposes and methods will be presented.

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