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Design of the Detector Systems in HPES Test Beam Terminals

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The High-energy Proton Experiment Station (HPES) is currently being constructed as part of the CSNS-II project. The 1.6 GeV protons are extracted from the Rapid Cycling Synchrotron of CSNS and directed to the HPES in the form of “single particle beam”. Two test terminals have been designed in the HPES to facilitate the completion of beam tests. The HPES is designed to serve as an advanced detector test platform for the development of High Energy Physics in China, facilitating a high resolution proton beam telescope and a proton energy measurement device. In this presentation, an overview of the terminal detector devices and their considerations of designs will be introduced, as well as the prospects to the HPES.

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