The 2024 International Workshop on the High Energy Circular Electron Positron Collider

Contribution ID: 90 Type: Talk

Digitization of TaichuPix-3 silicon pixel detector based on AllPix-Squared framework

Saturday, 26 October 2024 09:40 (20 minutes)

A telescope composed of TaichuPix-3 chips is simulated with the AllPix-Squared framework, which is an open-source software. The AllPix-squared framework is able to simulate the physical process of silicon pixel detectors and digitization of the front-end electronics. The TaichuPix-3 chips are characterised by AllPix-squared simulation and beam test results. This report will show the comparison between simulation and beam test results in cluster size and efficieny variation with the incident angle and threshold.

Primary authors: LI, Shuqi; LIANG ZHIJUN, 梁志均; LU HANCEN, 鲁函岑 (ihep)

Presenter: LU HANCEN, 鲁函岑 (ihep)
Session Classification: Software

Track Classification: Detector and System: 18: Offline & Software