



Contribution ID: 131

Type: oral

## FlashCam: a high-performance camera for IACTs

*Thursday, 26 September 2024 16:17 (17 minutes)*

FlashCam is a PMT-based camera designed for Cherenkov telescopes. It is based on a custom developed continuous digital readout and trigger system with a sampling rate of 250 million samples per second. FlashCam is built using a horizontal architecture with three distinct sections: photodetectors, readout system and data acquisition. One copy of the camera has successfully been verified at HESS for several years, since its installation in 2019.

The future Cherenkov Telescope Array Observatory (CTAO) will consist of a large number of telescopes with multiple different sizes spread over two arrays (La Palma and Paranal) and will be the most sensitive ground-based Cherenkov detector. The FlashCam collaboration is developing the camera for the medium-sized telescopes of the South Array of CTAO. Within the team, we are preparing the camera to build a first pathfinder at or near the CTAO South Station. This contribution presents the current status of the camera, as well as the preparations for its series production.

**Primary author:** ESCANUELA NIEVES, Clara (Max Planck Institut for nuclear physics)

**Presenter:** ESCANUELA NIEVES, Clara (Max Planck Institut for nuclear physics)

**Session Classification:** Hardware & Software Developments