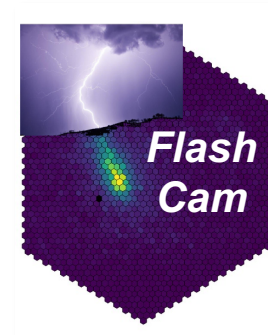


Science verification of the new FlashCam-based camera in the 28 m telescope of H.E.S.S.

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**Konrad Bernlöhr, Baiyang Bi, German
Hermann, Jim Hinton, Ira Jung-
Richardt, Fabian Leuschner, Vincent
Marandon, Alison Mitchell, Lars
Mohrmann, Daniel Parsons, Simon
Sailer, Heiko Salzmann, Simon
Steinmassl, Felix Werner
on behalf of the H.E.S.S. collaboration**



A FlashCam for H.E.S.S.-CT5

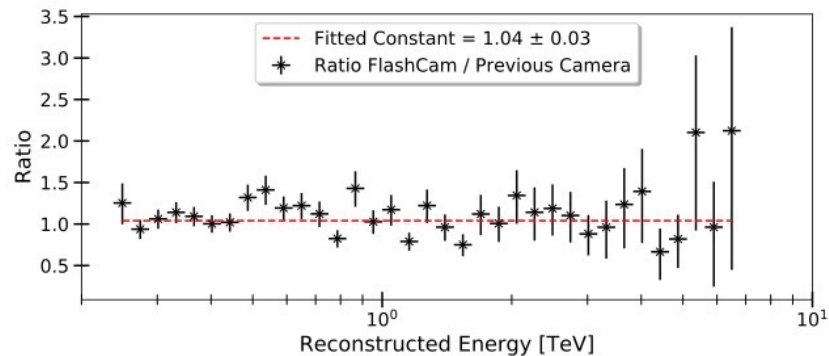
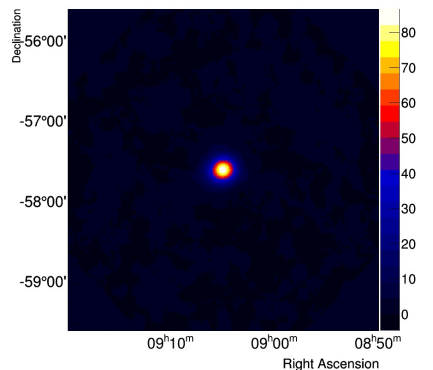
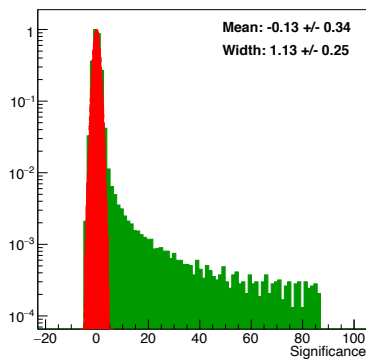
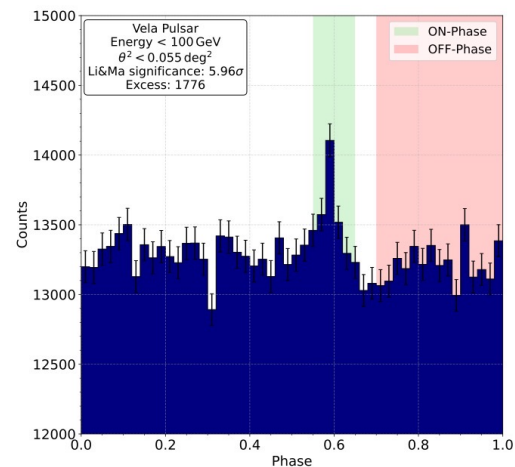
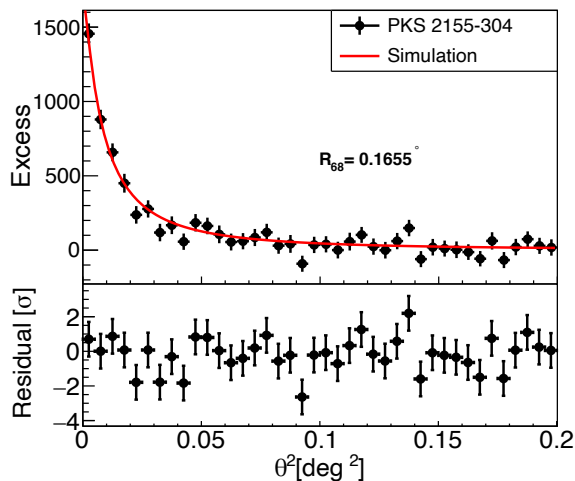
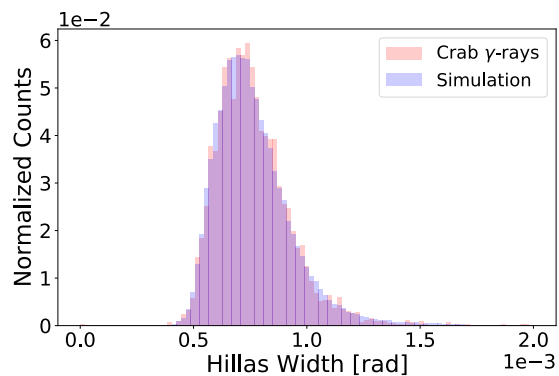
- H.E.S.S.-CT5: 28 m telescope of the H.E.S.S. array
- In operation since 2012
- Original camera (which suffered from aging symptoms) was replaced with an advanced prototype of a FlashCam in October 2019



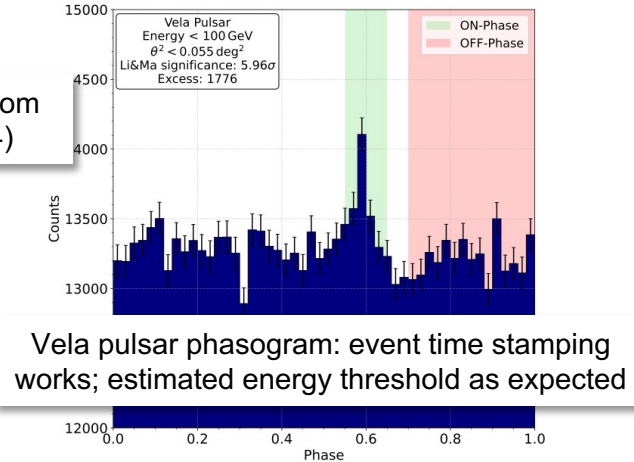
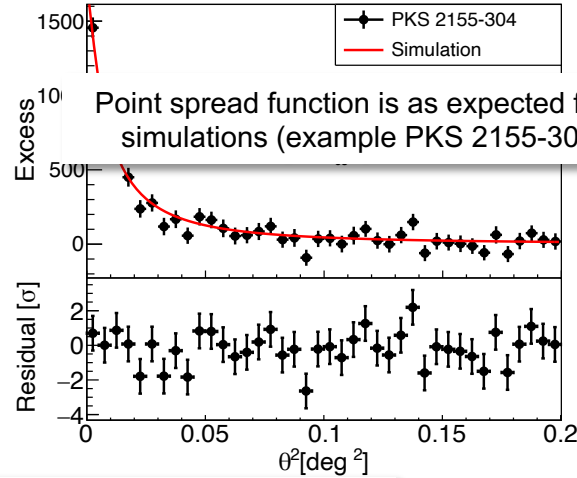
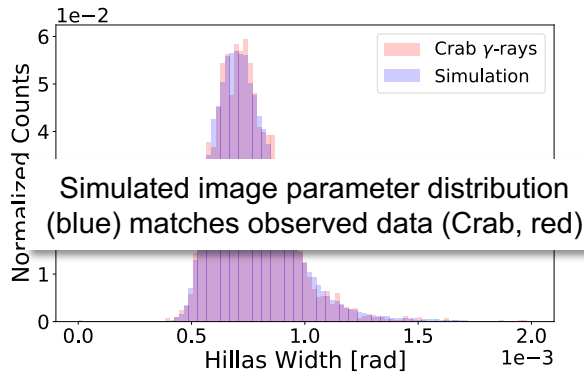
- FlashCam: a fully digital trigger and readout system for Cherenkov cameras
- PMT-based FlashCam: designed for potential use in CTA-Medium Sized Telescopes
- FlashCam in CT5 in successful and stable operation for 1.5 years; for technical performance parameters and monitoring
→ Bi et al., session 56, Tue July 20, 12:00
- Here: results of the science verification program conducted after commissioning



Science verification results



Science verification results



Reconstructed source positions (Crab, PKS 2155-304, PKS 0903-57) match catalog positions within expected error budget from calibration

