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Calibration and Performance Characterization of the SST Camera Using SiPM Pixels

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The SST camera of CTA is a Silicon Photo-Multiplier (SiPM) based 2048-pixel camera with 1 GSps full wave-form readout. Its current prototype iteration underwent field tests in July 2025.

This work presents:

- extraction of key performance parameters of the SiPMs employed in the SST camera such as gain, resolution, and pedestal position and width, using laboratory data.
- application of resulting calibration parameters to the data taken during the recent field test campaign.
- comparison of Cherenkov shower image distributions between field data and MonteCarlo simulations.
- search for Muons in the data set, building from a previous work on a muon tagger.

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