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The design of NectarCAM, a camera for the Medium-Sized Telescopes of CTAO

NectarCAM is a Cherenkov camera which is going to equip the Medium-Sized Telescopes (MST) of the northern site of the Cherenkov Telescope Array Observatory (CTAO).

This contribution presents the hardware design of NectarCAM. The camera has a modular design, with 265 identical modules of 7 pixels, installed in a module holder and cooled by airflow. The modules are responsible for the detection of photons, the conversion to electrical signal and its temporary storage and digitization. The signals are sent to a camera server when a camera trigger is issued. In this contribution, we present the mechanics, cooling and power dissipation. We also describe the external interfaces of NectarCAM, including the control and data acquisition systems, together with the camera tests in a dark room at CEA Paris-Saclay and the latest performances of NectarCAM.

Collaboration(s)

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