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## QC and characterization of the SMART board for the ADAPT hodoscope

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The “Advanced Particle astrophysics Telescope” (APT) is a mission concept for a future very large area space-based MeV-TeV gamma-ray observatory. A small-scale prototype, the Antarctic Demonstrator for APT (ADAPT), is currently being designed and built to fly on a balloon.

Among its subdetectors is a hodoscope that will allow tracking and localization of charged particle trajectories coming through the detector stack. The hodoscope consists of four layers of interleaved scintillating fibers coupled to Silicon Photomultipliers (SiPMs).

Our work is focused on the characterization and study of a multichannel electronics to readout the hodoscope SiPM signals. Specifically, the SMART (SiPM Multichannel ASIC for high Resolution Cherenkov Telescopes) ASIC will be employed. It is characterized by high compactness and low costs, side by side with a good level of integration of the electronics, and its main goal is the amplification of signals coming from SiPMs.

In this contribution we will present the quality control and characterization results of the performance of the SMART readout board for the Hodoscope subsystem of ADAPT, that will allow the proper localization of the trajectory of the particles coming through the hodoscopes of the ADAPT detector stack, by employing of the SMART ASIC.

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