Contribution ID: **226** Type: **Talk**

【350】FIT: The Fiber Tracker for the HERD Facility

Thursday 30 August 2018 16:00 (15 minutes)

The high energy cosmic radiation detection (HERD) facility is a space astronomy payload proposed to be installed onboard the future Chinese space station. The University of Geneva is working on the development of a tracking detector made of scintillating fibers read-out by arrays of silicon photomultipliers that could be placed on the four lateral sides of the detector. A mechanical and electronics design has been proposed, and various prototypes have been produced. Two different read-out electronics based on two ASICs (VATA and SIPHRA) are under test. The results of beam tests carried out at CERN, the predictions of a dedicated Monte Carlo simulation and the status of the ongoing space qualification process are presented in this contribution.

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Session Classification: Nuclear, Particle- & Astrophysics (TASK)

Track Classification: Nuclear, Particle- and Astrophysics (TASK)