Contribution ID: **111** Type: **Contributed Talk**

THE ASTRI MINI-ARRAY AT THE OBSERVATORIO DEL TEIDE

Friday 14 October 2022 15:00 (15 minutes)

The ASTRI Mini-Array is a gamma-ray experiment led by INAF with the partnership of the Instituto de Astrofisica de Canarias, Fundacion Galileo Galilei, Universities of Sao Paulo, North-West University S.A. It is being implemented at the Observatorio del Teide in Tenerife. The ASTRI Mini-Array will encompass nine identical Cherenkov dual-mirror aplanatic telescopes positioned at a minimum distance from each-other of about 250 m. Thanks to their unprecedented field-of-view (10.5 deg), the Mini-Array will allow us to observe the gamma-ray sky from a few up to few hundreds TeVs with high sensitivity and enhanced angular resolution. The curved focal camera is covered with SiPM sensors and it is equipped with a fast front-end electronics. The control SW will allow us to operate remotely the Mini-Array, while a dedicated off-site DataCenter in Italy will process the data collected every night. The ASTRI Mini-Array represents a key instrument to perform very soon a ground breaking achievement in the field of extreme gamma rays. In this contribution, the project status and the expected performance of the ASTRI Mini-Array will be presented.

Track

Future Missions/Instruments

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Session Classification: Plenary 8