

Stefano Vercellone: ASTRI Mini-Array Core Science Program

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The ASTRI Mini-Array, an array of nine Cherenkov dual-mirror telescopes, is under construction at the Observatorio del Teide (Tenerife, Spain). We review the Core Science Program which we plan to perform during the first four observing years, including the origin of cosmic rays, the extra-galactic background light and the study of fundamental physics, and the novel field in the VHE domain of gamma-ray bursts and multi-messenger transients. We also discuss the synergies with current and future VHE facilities in the Northern hemisphere, such as MAGIC, LHAASO, HAWC, Tibet AS-gamma, and CTAO-N.

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