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The science case for a Southern Wide field of view detector.

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EAS arrays are wide field-of-view instruments able to monitor all the overhead sky with a close to 100% duty-cycle. Such a detectors are multimessenger observatories by definition allowing a combined study of photon and charged nuclei induced events.

All EAS arrays presently in operation or under installation are located in the northern hemisphere.

The scientific potential of a next-generation facility in the Southern Hemisphere will be presented and discussed.

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