

Abstract Submitted
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Recent Results from the Pierre Auger Observatory¹ LAWRENCE WIENCKE, Colorado School of Mines, PIERRE AUGER COLLABORATION — The Pierre Auger Observatory, located in the Mendoza province of Argentina, is the largest facility on Earth for measuring high energy cosmic rays. Its detectors have sensitivity to other phenomena as well. We summarize recent results from the Observatory. These include the measurement of the cosmic ray energy spectrum, its features above 2.5 EeV and a preliminary measurement down to 300 PeV, direct measurement of the muonic content of extensive air showers between 0.2 and 2 EeV, the observation of cosmic ray anisotropies in right ascension, and a search for ultra high energy neutrinos from the TXS 0506+056 blazar. On the terrestrial side, the observation of almost 1600 transient luminous elve events leveraged the Observatory's nominal viewing area by three orders of magnitude. Finally, the status of the Auger Upgrade installation is summarized.

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