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Ultra-high-energy multi-messenger activities at the Pierre Auger Observatory

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The last decade of experimental data has provided many insights on the most extreme phenomena in the Universe where gravity and particle physics come together. A multi-messenger approach, combining data from complementary experiments and exploiting the intimate connection between ultra-high-energy cosmic rays, photons and neutrinos, is needed to shed light on the still open crucial aspects regarding their sources and propagation to the Earth. The Pierre Auger Observatory, the largest ultra-high-energy cosmic ray observatory ever built, has a high potential for multi-messenger studies given its sensitivity to photons and neutrinos in the EeV energy range and above. We report results and perspectives for both diffuse and targeted searches.

Collaboration name

Pierre Auger Collaboration [A. Aab et al.]

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