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Multi-messenger studies with the Pierre Auger Observatory

Thursday 1 September 2022 15:50 (20 minutes)

The combination of experimental data from Observatories studying ultra-high energy cosmic rays, photons, neutrinos and gravitational waves, has provided in the last decade many insights on the most extreme phenomena in the Universe. This multi-messenger approach is shedding light on the physics beyond production and propagation of these messengers by exploring their intimate connection.
The Pierre Auger Observatory, the world's largest ultra-high energy cosmic ray observatory, has a high potential for multi-messenger studies thanks to its sensitivity to photons and neutrinos above 10^{17} eV. Several activities in this context are being carried out at the Observatory. We report here the latest results and perspectives from diffuse and targeted searches along with those from follow-up analyses.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

Pierre Auger Observatory, Malargue (Mendoza) Argentina

Is the speaker for that presentation defined?

Yes

Details

V. Scherini, Dr., Università del Salento and INFN Lecce, Italy. https://web.le.infn.it/

Internet talk

Yes

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