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Recent UHECR results and their interpretation

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Recent experimental results probe that UHECRs have extragalactic origin, and that their nature evolves towards heavier nuclear species with increasing energy. Several uncertainties however affect the understanding of the characteristics of UHECRs at Earth, as well as the association of UHECRs with possible source classes. In this talk I will report about the most recent experimental achievements and the models used for interpreting them in terms of astrophysical scenarios. Multi-messenger approaches will be also discussed, as well as the benefit expected from ongoing or future experimental upgrades.

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