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UHECR measurements and physics at man-made accelerators: mutual constraints

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Measurements of the products of UHECR interactions with the Earth's atmosphere, as obtained in Extended Air Shower Experiments and at Very Large Volume Neutrino Telescopes, offer important information concerning hadronic interactions,

which for some aspects overlaps and for many others complements the information extracted by measurements of collisions at man-made accelerators. In this contribution I discuss some of the constraints that the UHE astroparticle and accelerator fields exercise one over each other, emphasizing the importance of further new measurements, through new experiments or observations, in both fields.

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