Ultra High Energy Cosmic Rays 2018



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UHECR 8 EeV dipole anisotropy hint of galactic pollution sources

The discover in AUGER of a dipole remarkable anisotropy it is statistically the most strong in the whole Ultra High Energy Cosmic Ray history. It implies a dipole anisotropy almost overlapping to the Argo-Hawc one at tens TeV energy. However

the tens TeV anisotropy it must be very local (galactic) one while the UHECR are supposed to be (as their name suggest) Cosmic ones.

We show that there are very convincing arguments that favor the presence in the anisotropy source of a nearby unique local UHECR source (few Mpc far) as NGC 253 star burst galaxy.

We also suggest that the few brightest galactic gamma sources as Vela, Crab and LMC might also be also the polluting galactic sources able to lead to such a bright anisotropy.

Auteur principal: FARGION, Daniele (Physics Departm Rome 1 INFN 1)Orateur: FARGION, Daniele (Physics Departm Rome 1 INFN 1)

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