Ultra High Energy Cosmic Ray radioactivity in flight painting TeV anisotropy sky.

Wednesday 14 September 2016 16:05 (15 minutes)

The presence of large scale TeVs anisotropy in Milagro, ARGO, ICECUBE and today Hawc sky remain a mistery: how may charged cosmic rays at tens TeV remain correlated while being bent by local solar and galactic magnetic fields in an expected smeared nearly homogeneous maps? We considered UHECR as mostly light (or partial heavy) radioactive nuclei whose decay in flight may feed by alfa and neutron as well as gamma secondaries the TeVs anisotropy. We show in the overlapped UHECR and TeV sky remarkable correlation, whose presence might point for nearby galactic sources as Crab, Vela, Cygnus X3 and maybe nearest AGN as Cen A. The ARGO multi-energy gamma-CR sky is somehow the most telling in this source search connection.

Summary

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