



Contribution ID: 87

Type: **Talk**

Ultra-high energy cosmic ray anisotropies measured with the Pierre Auger Observatory

Thursday, 24 January 2019 15:20 (20 minutes)

Recently the Pierre Auger Observatory has observed a dipolar anisotropy of amplitude $\sim 6.5\%$ above 8×10^{18} eV that is unrelated to the Galactic plane. While the significance is largest above 8×10^{18} eV, the cosmic-ray data indicate a growth of the dipolar amplitude from 4 to 32 EeV and beyond.

Furthermore, above 4×10^{19} eV, indications have been found for intermediate-scale anisotropies associated with extragalactic gamma-ray sources. Apart from those indications no significant anisotropies are seen. We review these observations and discuss possible astrophysical interpretations, in particular in the context of the sources discussed at this conference.

Are you presenting on behalf of collaborations or institutions?

on behalf of the Pierre Auger collaboration

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Session Classification: Connection to UHECR

Track Classification: Main track