Contribution ID: **119** Type: **Poster**

Search for large-scale cosmic-ray anisotropy with the first detection units of KM3NeT/ARCA

KM3NeT/ARCA is a very large-volume neutrino telescope currently under construction deep underwater in the Mediterranean Sea. Although primarily designed to search for high-energy neutrinos from astrophysical sources, this detector also has the potential to probe cosmic rays in the TeV-PeV energy range - an advantage made possible thanks to the atmospheric muons, which constitute the predominant background source in deep neutrino telescopes.This study aims to investigate anisotropy in the arrival direction distribution of high-energy cosmic rays observed by KM3NeT/ARCA with its first detection units. Different data-driven models are employed to disentangle the detector effects from the data and allow for a proper interpretation of observations.

Collaboration(s)

On Behalf of the KM3NeT collaboration

Authors: BOUASLA, Amani Bemsa (University of Badji Molhtar Annaba); Prof. ATTALLAH, Reda (University of Badji Mokhtar Annaba)

Presenter: BOUASLA, Amani Bemsa (University of Badji Molhtar Annaba)

Session Classification: PO-1

Track Classification: Cosmic-Ray Indirect