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All-sky diffuse astrophysical neutrino flux with KM3NeT/ARCA data

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KM3NeT/ARCA is a rapidly evolving neutrino detector in the Mediterranean Sea. The capability of the detector to measure the diffuse astrophysical neutrino flux was recently demonstrated by the observation of an Ultra High Energy neutrino of astrophysical origin. In this contribution an analysis of KM3NeT/ARCA data, employing Machine learning techniques and advanced statistical methods is presented, as well as a fit to the parameters of the diffuse flux. The latest results for the diffuse cosmic neutrino flux with KM3NeT/ARCA will be reported.

Collaboration(s)

KM3NeT

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