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Neutrino Astronomy with KM3NeT/ARCA

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Neutrino astronomy is a rapidly evolving discipline probed by large-volume neutrino detectors such as the ones being built by the KM3NeT collaboration in the Mediterranean Sea together instrumenting a cubic kilometre of seawater. ARCA is the high-energy unit of this network. In its full configuration of 230 lines with $> 10^5$ photomultiplier tubes installed, it will be sensitive to neutrinos in the $10^2 - 10^8$ GeV energy range with sub-degree angular resolution and even sub 0.1° for $E > 20$ TeV. Since May 2021 KM3NeT has been taking data with more than 6 lines. In this contribution an update will be given of the most recent astrophysics results with the ARCA detector, among which the responses to prompt alerts in a multi-messenger network, and the sensitivity of ARCA to a cosmic diffuse neutrino flux and to point sources in the sky.

Collaboration name

KM3NeT

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