



Contribution ID: 69

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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  $0.1^\circ$  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

**Author:** Ms MULLER, Rasa**Presenter:** Ms MULLER, Rasa**Session Classification:** Neutrinos**Track Classification:** Gravitational wave and multimessenger