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KM3NeT/ARCA expectations in view of a novel multimessenger study of starburst galaxies

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Starburst galaxies (SBGs) and more in general starforming galaxies represent a class of galaxies with a high star formation rate (up to 100 Mo/year). Despite their low luminosity, they can be considered as guaranteed “factories” of high energy neutrinos, being “reservoirs” of accelerated cosmic rays and hosting a high density target gas in the central region. In this contribution we present a novel multimessenger study of these sources and the possibility of observing their neutrino signals with the KM3NeT/ARCA telescope. The differential sensitivity and discovery potential for different SBG scenarios are reported considering track-like events in the 100 GeV-100 PeV energy range.

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