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Statistical Methods for point-like neutrino searches

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The KM3Net consortium aims at the construction of an underwater research infrastructure hosting a telescope for high energy neutrino located in the Mediterranean sea.
The telescope performance, which consists in the estimate of the sensitivity and discovery fluxes, is estimated by means of Monte Carlo simulations.
Moreover, different statistical analysis can be applied in order to analyze the fluctuations of the atmospheric neutrino background and detect an excess due to neutrino from galactic and extra-galactic sources.
The statistical methods and the results will be presented.

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