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Investigating the physics of ultrahigh energy neutrinos in neutrino telescope experiments

We compute the corresponding number of events for PeV energy neutrinos for typical neutrino telescope experiments (Auger and IceCube experiments). We consider different parametrizations for the neutrino-nucleon cross section, including predictions from the geometric scaling phenomenon. The theoretical uncertainty for the number of events is investigated.

Primary author: MACHADO, Magno (IF-UFRGS)

Presenter: MACHADO, Magno (IF-UFRGS)