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Study of neutrino flavor fractions at source with IceCube

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In order to exploit the potential of IceCube, it is advisable to interpret as consistently as possible their experimental results. Here, we study the consequences of considering that the fraction of neutrinos and anti-neutrinos produced by a particular source are not necessarily the same. Like for example, when the source of neutrinos is mostly due to cosmic rays photo-disintegration. Also, we show that by considering this issue it is possible to interpret the current best fit of IceCube in terms of standard neutrino-physics.

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