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High energy neutrinos: validations, inferences, prospects

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IceCube has changed the rules of the game and it continues to progress. Remarkably, the observations are compatible with the known neutrino oscillations. Moreover, the topologies of the events have been used to probe exotic physics. Still, we need independent confirmations; the connections of IceCube's neutrinos with astronomical/astrophysical facts heavily rely on speculations—excepting special cases, such as GRB; the amount of prompt events is not known precisely; double bang and/or Glashow resonance events are still to be seen. The situation is rapidly evolving; we should consider expectations but profiting of the new facts and of the new questions in order to reassess the case for high energy neutrino telescopes.

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