

# Origin of astrophysical neutrinos

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Neutrino telescope IceCube has recently discovered astrophysical neutrinos with energies in the 10 TeV – 3 PeV range. It challenged existed theoretical models due to unexpected soft spectrum  $1/E^{2.5}$  of neutrinos. Together with limits from diffuse gamma-ray flux measured with Fermi experiment this excluded most of existed predictions. In my talk I'll review theoretical models, which can explain observed data both with Galactic and extra-galactic sources of neutrinos.

## **Presentation type**

Section talk (10+5 min)

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**Session Classification** : Nuclear physics and particle physics - parallel X

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