



Contribution ID: 140

Type: **not specified**

Is the Cosmic Neutrino Background Within Reach of Future Neutrino Telescopes?

The cosmic neutrino background is the last missing piece of the early Universe's thermal history. Its direct detection would be a monumental milestone for the fields of cosmology and particle physics. We recently proposed that cosmic rays can scatter off the cosmic neutrino background throughout the history of the Universe, yielding a flux of relic neutrinos boosted to high-energies. Here I will discuss the feasibility of this proposal, clarifying which astrophysical and experimental conditions would allow us to detect the cosmic neutrino background with future (ultra) high-energy neutrino telescopes.

Author: HERRERA, Gonzalo (Virginia Tech)

Presenter: HERRERA, Gonzalo (Virginia Tech)