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Tau neutrino search with the MAGIC Telescope

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Abstract content

The MAGIC telescope located on the Roque de los Muchachos on the Canary Island La Palma at a height of 2200m a.s.l. is able to point to the sea. This allows to search for air shower signatures induced by particles coming out of the Earth. Taking into account the huge effective area, this configuration can be used to search for tau-neutrinos.

We will show the outcome of simulations for tau-neutrino signatures and background and compare it with first observations done. Additionally, we will review models for astrophysical neutrino sources and present the estimated event rates in MAGIC

If this papers is presented for a collaboration, please specify the collaboration

MAGIC

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Oliveo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 3 (OG part 2), pages 1273-1276

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