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## Galactic neutrino background from cosmic ray interaction with the ISM

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### Abstract content

We use a diffusive model for the propagation of Galactic cosmic rays to estimate the charged meson production in interactions with protons of the interstellar medium. Cosmic ray nuclei from proton to iron are considered and the corresponding contribution to the neutrino secondary flux produced as a result of spallation is also estimated. The contribution from nearby Galaxies to the all sky neutrino flux inside the same energy window is also analyzed.

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

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, 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 1269-1272

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