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Production cross section of antiprotons in proton-proton collision

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Abstract content

Production cross section of antiprotons in proton-proton collision is presented for the study of cosmic-ray (CR) antiproton propagation in the Galaxy. We propose a semi-empirical cross section of antiprotons with only three parameters, the average multiplicity, the average transverse momentum of antiprotons, and the deformation parameter, giving the deformation from the isotropic angular distribution in the center of mass system. We also show the present formula is applicable for proton-nucleus collision too.

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. 2 (OG part 1), pages 203-206

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