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# Derivation of the Moliere simultaneous distribution between the deflection angle and the lateral displacement

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## Abstract content

Moliere simultaneous distribution between the deflection angle and the lateral displacement is derived by applying numerical Fourier transforms on the solution for frequency distribution acquired through Kamata-Nishimura formulation of Moliere theory. The differences of our result from that under the gaussian approximation and the basic properties of our distribution are investigated closely.

# 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. 4 (HE part 1), pages 157-160

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