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Studies On Curvature Tensor and Geodesic Deviation Equation

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Abstract content

Modified Henon–Heiles system describing geodesic in gravitational waves has already been investigated. There chaotic sense is inferred by the presence of fractal structure of the boundaries separating the basins of possible escapes. In this paper, observed chaotic behaviour is characterized by the formalism appropriating the signature of curvature tensor associated with the space-time geometry concerned. A simple but appealing analysis of geodesic deviation equation is also followed.

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 1279-1282

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