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De sitter relativity in static charts

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The relative geodesic motion in static (and spherically symmetric) local charts on the (1+3)-dimensional de Sitter spacetimes is studied in terms of conserved quantities. The Lorentzian isometries are defined, relating the coordinates of the local chart of a fixed observer with the coordinates of a mobile chart considered as the rest frame of a massive particle freely moving on a time like geodesic. The simple relativistic effects are briefly presented pointing out some of their notable features in this geometry.

Biography

Ion I. Cotaescu is a retiring professor in theoretical physics of 75 years old. He is still Ph.D. advisor for theoretical physics at the West University of Timisoara where he was successively since 1972: assistant professor, lecturer, associate professor and professor. Between 1990 and 1996 he was the Dean of the Faculty of Physics. After 1996 he was Chairman and Director of the Center of Researches in Theoretical Physics until 2011 when he was retiring.

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