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Carroll Symmetry & Memory Effect for gravitational waves

Thursday 2 December 2021 10:00 (1 hour)

Abstract: The motion of test particles after the passage of a Gravitational Wave could (in principle) provide a way to detect the Wave. The isometries of a plane gravitational wave, identified as Levy-Leblond's „Carroll” group, act as symmetries for the particle subject to the wave ; the associated conserved quantities determine the trajectories.

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