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Poincaré et ses limites

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The Poincaré group is at the heart of Einstein's description of spacetime. Its non-relativistic limit, the Galilean group, is adapted to physics at velocities that are small compared with the speed of light. There is another limit, called the Carrollian limit, obtained formally as a zero-speed-of-light limit. Despite its exotic nature, this limit has found a vast field of applications in the study of the asymptotic symmetries of certain types of spacetimes, in the description of the horizons of black holes, and in the formulation of the ultra-relativistic limit of fluids.

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