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The Unruh effect from a De Broglie-Bohm perspective

The particle concept in curved space-time is, in general, observer dependent, as is well-known from the Unruh effect. This, in particular, is really important to understand the particle emission from black holes. In this work, we study the Unruh effect under the perspective of De Broglie-Bohm interpretation of quantum mechanics, where from the wave functional we obtain the associated trajectories and the two-point correlation function, studying the high-temperature limit and comparing with the classical distribution. These results will be published soon in a forthcoming paper, in which we will also investigate the Bunch-Davies vacuum, according to De Broglie-Bohm's view.

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