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Physics of accelerated frames (selected issues)

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We review briefly a few theoretical issues related to physics of accelerated frames. In particular, for certain observables a precise equivalence, or duality between statistical averages in equilibrium state in accelerated frames and quantum averages in external gravitational field has been recently established. As a result, some generalizations of the Unruh effect have been derived. More speculative theoretical predictions include effective CP violation in accelerated with astrophysical applications (suggested in literature) and some vacuum effects.

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