## Quantum Correction for Newton's Law of Motion

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**Abstract.** Contemporary physics, both Classical and Quantum, requires a notion of inertial reference frames. However, how to find a physical inertial frame in reality where there always exist random weak forces? We suggest a description of the motion in non-inertial frames by means of inclusion of higher time derivatives. They may play a role of non-local hidden variables in a more general description complementing both classical and quantum mechanics.

## References

[1] TF Kamalov (2016) https://arxiv.org/abs/1612.06712