



量子物理学・ナノサイエンス第 284 回セミナー

The deformation parameter of the Generalized Uncertainty Principle

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概要

In this talk we give a short review of the generalized uncertainty principle (GUP), then we focus on the bounds recently found for the deformation parameter of GUP, in particular bounds of gravitational origin. Possible violations of the Equivalence Principle are highlighted. Then, we propose a technique to compute the deformation parameter by using the leading quantum corrections to the Newtonian potential. This specific numerical value is discussed and compared with the previously obtained bounds on the deformation parameter.

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