量子物理学・ナノサイエンス第 99 回特別セミナー

Nonlinear quantum corrections to chiral kinetic theory

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概　要

The chiral kinetic theory (CKT) is a great theoretical framework for the transport phenomena of massless degrees of freedom. In spite of various developments, the usual CKT includes only the linear quantum correction. In this talk, I explain how to formulate the CKT with the nonlinear corrections, not only under electromagnetic fields but also under gravitational fields. From the generalized CKT, I also show several intriguing implications, including the consistency with QED, nondissipative transport under gravity, potential issues on the CKT etc.

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