

A Naturally Renormalized Quantum Field Theory

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December 9, 2013

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Abstract

It was shown that quantum metric fluctuations smear out the singularities of Green's functions on the light cone [1], but it does not remove other ultraviolet divergences of quantum field theory. We have proved that the quantum field theory in Krein space, *i.e.* indefinite metric quantization, removes all divergences of quantum field theory with exception of the light cone singularity [2, 3]. In this paper, it is discussed that the combination of quantum field theory in Krein space together with consideration of quantum metric fluctuations, results in quantum field theory without any divergences.

Proposed PACS numbers: 04.62.+v, 03.70+k, 11.10.Cd, 98.80.H

1 Introduction

One of the greatest challenges of physics today is the achievement of a proper theory of quantized gravitational fields. In other words a theory, which quantizes the gravitational fields without any anomaly, is sought for the past seven decades without a thorough success. The element of time, which has two completely different concepts in quantum mechanics as opposed to general relativity, is the most outstanding problem of this theory. By introduction of background field method this problem has been resolved-although it could not be applied to the very early moments of evaluation of universe (the Planck scale) where the perturbation of metric is in the same order as the background metric itself. The next problem, which appears in the background field method is the non-renormalizability of the theory of quantum gravity. Three divergent opinions have been stated for explanation of this anomaly. The first view sees the problem as an inherent problem of general relativity and the second, as an intrinsic problem of quantum mechanics. The third group, believe that both, quantum mechanics and general relativity are problematic and an alternative theory has to replace them.

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