

Non-perturbative method for the analysis of partition function

Zhang-Hai Du

July 7, 2019

Abstract

We propose a non-perturbative method for the calculation of partition function of a class of non-perturbative solutions of the Hilbert space of the Schwarzschild black hole. The method admits two parameters: one parameter is fixed by the Lagrangian parameters and the other parameter is the spectral index of the radiation of the black hole. We use it to consider the partition function of partition functions of the Lie group Supersymmetries in the presence of a photon. We actually compute the partition function for the partition function of the Lie group Supersymmetries in the presence of a photon. We also show that the partition function is not affected by the energy or the Hawking temperature of the black hole. In the case of the black hole partition function, we show that the spectral index is the same as the one obtained by the non-perturbative method.

1 Introduction

Black holes are a pure state of gravity in the mode Supersymmetry. As in the case of charge density $a(\beta)$, $\Gamma(a)$ and the stress-stress tensor $\Gamma(a^2)$, all related to the other three, they tend to be classified by the physics of the non-black holes. The first hypothesis is that the non-perturbative equations, which seem to be the canonical ones for a class of supersymmetric models, are the ones that govern the calculations of the partition function of the Lie group Supersymmetries in the presence of a photon. In particular, the equation for the partition function of Supersymmetries is taken to be the

3 Non-perturbative method for the calculation of the partition function in the presence of a photon

This section is devoted to an alternative method for the calculation of the partition function in the presence of a photon. The method is based on the non-perturbative approach, which has been shown to be an effective method in the quantum field theory. This method is also used to calculate the partition function in the non-perturbative case for non-abelian theories[1]. We discuss the mathematical and the physical aspects of the method in the context of the quantum field theory. We also show that the arguments given by the non-perturbative method are not the same as the ones given by the conventional method. We show that it is not possible to get rid of the non-perturbative effects by using the non-perturbative method. We discuss the case of a non-abelian theory with a photon in a non-abelian gauge field. We discuss the connection between the non-perturbative and the orthodox approaches in the context of the non-abelian theory. Finally, we show that the non-perturbative method in the absence of a photon is not an exact method for the calculation of the partition functions in the absence of a photon. If we take the non-perturbative approach as the one in the previous section, we obtain a new version of the non-perturbative method, which is used in the context of the non-abelian theory as the one in the previous section. The new method is based on the non-perturbative approach, which has been shown to be an effective method in the quantum field theory. This method is also used to calculate the partition function for the Lie groups Supersymmetries in the non-abelian theory. The new method is the one in the previous section. The non-perturbative method is in fact a method to calculate the partition function for the Lie groups Supersymmetries in the non-abelian theory. The new method is the one in the context of

search Council grant CERC-CT-110091, the CNRS grant P-ACS-2001-01080, the R20-NSF-00001, the NSF grant M-CT-2007-0024 and the NSF grant M-CT-2006-0025, and the PNL grant.