Editor's Comment:

I accept the manuscript for publication in the BP International.

Considering the reviewers comments and authors corrections, we can publish this manuscript. The reasons are as follows:

- 1- One reviewer gives comment such as "the article is of great importance for further research on the quantum motion of a single charge. The article presents a new approach with the coefficients that were not taken into account before and identifies the directions of necessary further research. The proposed solutions allow scientists in this field to reconsider approaches to explaining the effects of quantum motion and the way to improve the theory."
- 2- One reviewer gives comment such as "The authors try to describe the motion of a charged particle moving on a flat surface under a constant magnetic field using Landau's gauge and symmetric gauge in quantum description. So, the manuscript is very important to the scientific community"
- 3- One reviewer gives comment such as "This manuscript addresses a fundamental problem in quantum mechanics by exploring the constants of motion and quantum dynamics of a charged particle in the presence of a transversal magnetic field. Such studies are crucial for understanding the interplay between magnetic fields and quantum systems, with potential implications for areas like quantum transport, topological materials, and magnetic confinement. The work combines rigorous mathematical analysis with physical insights, making it a valuable resource for researchers in quantum mechanics and condensed matter physics."
- 4- Three reviewers give comment such as "Accept after minor revision"
- 5- One reviewer gives comment such as "Accept after major revision"

 According to the comments, the authors have corrected the manuscript carefully. Therefore,

the manuscript has enough value for publication in the BP International.

Editor's Details:

Prof. Magdy Rabie Soliman Sanad Professor, National Research Institute of Astronomy and Geophysics, Egypt.