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Some Remarks About the Foundations of Quantum Mechanics

Spiros Koutandos

Phd in superconductivity, Maniakiou 17, Agia Paraskevi, Attica, Greece

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ABSTRACT: We give in short a possible explanation of the existence of spin in quantum mechanics and present a summary of our 35 year research on the foundations of quantum mechanics

KEYWORDS: Quantum Mechanics, Foundations Spin in Five Dimensions, Hidden Variables.

INTRODUCTION

We have come to some conclusions after 35 years of research on the hidden variables of quantum mechanics regarding some theoretical framework on which quantization may be explained.

We believe that a ring is rotating in five dimensions creating closed surfaces of simultaneity which in turn create volume vibration waves. Those are the longitudinal photons. Vibration of volume necessarily creates uncertainty in measurement.

MAIN PART

The symmetry breaking in the collapse of the wavefunction destroys superposition. This results in the loss of spacetime symmetries which may result in disorientation but the formation of a monopole antimonopole pair from the momentarily transformation of the mass as an inherent property of the spin makes up for it.

The two monopoles formed North and South are sources of curvature for spacetime. The also mark the beginning and end of classical time. They are warps of spacetime. The spin which is responsible for this is regarded as rotation of the point particle but in its quantum frame of reference it is the universe that is rotating.

Spin exists in five dimensions as a rotating ring. This is why we can not measure simultaneously all its projections in the axes. As the ring rotates it creates a polarization wave. Mass is associated with spin. This is why the photon has zero spin.

CONCLUSION

The results exposed are only a short summary of our findings. As we celebrate 100 years of quantum mechanics in 2025 a book is going to be published from Greece discussing in depth the foundations of quantum mechanics. We hope we have contributed to this field of research and hope there will be peace in the world.

REFERENCES

1) Koutandos S. Do Magnetic Monopoles Exist?. Recent Progress in Materials 2024; 6(1): 005; doi:10.21926/rpm.2401005.
2) Koutandos S. What does the wavefunction represent? Global J Sci Front Res Phys Space Sci. 2023; 23.
3) Spiros Koutandos, Explaining Ginzburg Landau equations from first principles,Physical Science and biophysics journal2021, Vol.5, issue 1
4) Spiros Koutandos,Regarding the formalism of quantum mechanics, Physical science and biophysics journal 2021, Vol. 5, issue 1 ,
5) Spiros Koutandos, Is Schrodinger equation a relativistic effect? Physical science and biophysics journal 2021, Vol. 5, issue 1
6) Spiros Koutandos, Exploring the possibility of surface change during emission of the radiation for the electron Physical science and biophysics journal 2021,Vol.5 , issue 2
7) Spiros Koutandos, Erratum on the author s work so far Physical science and biophysics journal 2021, Vol. 5, issue 2
8) Spiros Koutandos, Enhanced comprehension of the quantum mechanical hidden variables Journal of modern and applied physics2023,Vol. 6 issue 1
9) Spiros Koutandos, Spacetime and the observer in quantum mechanics Journal of modern and applied physics 2023, Vol.6, issue 1
10) Spiros Koutandos,Regarding Schrodinger s equation, Journal of modern and applied physics 2023,Vol.6 ,isuue 3
11) Spiros Koutandos, Are matter waves longitudinal photons Journal of modern and applied physics 2022,Vol.6, issue 2

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12) Spiros Koutandos, What does the wavefunction represent? Global Journal of Science Frontier Research: A Physics and Space Science, Year 2023,Volume 23 Issue 6 Version 1.0
13) Spiros Koutandos , About a possible explanation of the London equations, Physics Essays, 2020,Vol. 3, issue 2
14) Spiros Koutandos, A discussion about the hidden variables of quantum mechanics Physics Essays 2020,Vol.3 ,issue 4
15) Spiros Koutandos,Some reflections on the evaporation and condensation phenomena, IOSR , Journal of Applied Physics, vol9, Issue5, Version III, p 47-48
16) Spiros Koutandos A Newly Proposed Model for the Electron, IOSR , Journal of applied physics, (Jul. – Aug. 2018),Volume 10, Issue 4 Ver. II, 35-37
17) The Mirror of Reality: A Five-Dimensional Framework for Understanding Quantum Mechanics Spiros Koutandos International journal of research and growth evaluation Vo.6 ,issue 6, November 2025
18) Spiros Koutandos, Regarding the total time derivative of the radius, IOSR, Journal of applied physics (Nov. – Dec. 2018), Volume 10, Issue 6 Ver. I ,26-27
19) Spiros Koutandos, Some thoughts on the collapse of the wavefunction, IOSR , Journal of applied physics (Jan. – Feb. 2019), Volume 11, Issue 1 Ser. II PP 01-02
20) Spiros Koutandos, Rewriting the master equation, IOSR, JAP, (May. – June. 2019), Volume 11, Issue 3 Ser. II PP 72-74
21) Spiros Koutandos, The quantization of flux, IOSR JAP, (May. – June. 2019), Volume 11, Issue 3 Ser. III
22) Spiros Koutandos, Solving the alpha omega equation IOSR JAP, (Nov. – Dec. 2019), Volume 11, Issue 6 Ser. I PP 67-68
23) Spiros Koutandos, Some examples of formation of shells and their role in establishment of equilibrium European journal of physics education, 2012, Vol.3, issue 1
24) Spiros Koutandos, A short essay on the uses of free energy,European journal of physics education, 2013, Vol.4 , issue 3
25) The Mirror of Reality: A Five-Dimensional Framework for Understanding Quantum Mechanics Spiros Koutandos International Journal of Research growth and evaluation, vol.6, issue 6, November 2025

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Corresponding Author: Spiros Koutandos