



How to Merge Quantum mechanics in General Relativity?

1,Ismail Abbas, Sherif Ismail Abbas 2,Nora Abbas 3

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Abstract

The object of this article is explore the unification of Quantum Mechanics (QM) and General Relativity (GR), proposing that both theories belong to the Lorentzian principle , share more common properties than differences and can be studied within a unified framework.

We analyze the matrix mechanics related to geometry of both theories to emphasize the need for a new framework that can handle the challenges posed by the inherent difficulties of these theories.

Fundamentally, the current definitions of the stress tensor, the curvature tensor in general relativity, and the concept of a quantum system in quantum mechanics are all poorly defined or not defined at all in the true 4D unitary xt space, making their fusion practically impossible.

Therefore, any serious attempt aiming to reconstruct the foundations of a new theory unifying quantum mechanics and general relativity should be based on the appropriate definition of stress strain tensors implying the following revolutionary equation,

Stress tensor x space time curvature tensor = I (1)

Equation 1 is a universal law of physics which is implied by the nature and is able to solve all classical and quantum physics problems in addition to pure mathematics and statistics.

Furthermore, equation 1 preserves the arrow of time, a necessary requirement implied by nature entropy in the second law of thermodynamics.

At the extreme, we would say that equation 1 is the only acceptable law in mathematics and physics. In the sense that any mathematical or physical law or rule compatible with equation 1 should be accepted, otherwise it will be refuted.

That is the reason, we use equation 1 to generate Einstein general relativity in one sentence and alternatively we use the same equation 1 to generate the Schrodinger solution of H-atom again in one sentence and consider these two procedures as a unification of general relativity and quantum mechanics.

These striking facts are the subject of this article.

Notice that A.Einstein and E.Schrodinger failed to define time properly and considered it as an external scalar controller which acts independently to the geometrical xyz axis in D^4 space.

Which implies that Both Einstein theory of gravity or general relativity and classical Schrodinger PDE do not agree with equation 1 and should be refuted.

Finally, it should be clarified that this article is not intended to minimize the major contributions of great physicists and mathematicians of their time such as Einstein, Schrödinger, Heisenberg, Minkowski, Hilbert, and Riemann, among others, but rather to address the main slips and limitations of their theories, where applicable.

Note: If you are not familiar with all the universal laws of physics, please stop reading. This article is not intended for you.

I.INTRODUCTION

Mathematics entered physics as a tool but little by little it transformed to be the master.

In the sense that many people believe that mathematics can generate physics when the opposite is true.

The object of this article is explore the possibility of unifying Quantum Mechanics (QM) and General Relativity (GR proposing that both theories belong to the Lorentzian principle (equation 1) , share more common properties than differences and can be studied within a unified framework [2,3,4,5].

When we analyze the matrix mechanics lying behind the geometry of both theories we discover the need for a new framework that can handle the challenges posed by the inherent difficulties of these two theories.

Additionally, the present definitions of the stress and strain or curvature tensors in general relativity, and the concept of a quantum system in quantum mechanics are all poorly defined or not defined at all in the true 4D unitary xt space, making their fusion practically impossible [1,2,3].

Therefore, any serious attempt to rebuild the foundations of a new theory unifying quantum mechanics and general relativity should be based on a breakthrough definition of stress-strain tensors generating the following revolutionary equation:

Stress tensor x space time curvature tensor = I (1)

Equation 1 is indeed a universal law of physics following the Big Bang that is imposed by the nature since the Big Bang itself is the source of our physics and mathematics which solve all classical and quantum physics problems in addition to pure mathematics and statistics.

Furthermore, equation 1 preserves the arrow of time, a necessary requirement implied by entropy in the second law of thermodynamics [1,6].

At the extreme, we would say that equation 1 is the **only fundamental law in mathematics and physics.**

The above statement implies that any law or rule in mathematics or physics compatible with equation 1 must be accepted, otherwise it should be refuted.

It is not easy to verify the possibility of merging quantum mechanics and general relativity, because there is no direct intersection between the two.

However, we can demonstrate or verify the possibility of merging QM and GR when we go through two consecutive steps:

1-We use equation 1 to generate Einstein general relativity just in one sentence.

2- We use the same equation 1 to generate the Schrodinger solution of H-atom in another one sentence and consider these two steps as a unification of general relativity and quantum mechanics.

This striking fact is the subject of this article.

Therefore, we assert that neither A. Einstein nor E. Schrödinger did succeed in properly defining time and considered it as an external scalar controller that acts independently of the geometric xyz axes in D^4 space.

The above fact implies that both Einstein theory of gravity called general relativity and classical Schrodinger PDE do not agree with equation 1 and should be refuted.

It is worth mention that Schrodinger PDE should be modified to describe $\Psi^2 = \Psi \cdot \Psi^*$ rather than Ψ itself.

On the other hand, the theory of general relativity is wrongly called the theory of gravity because Einstein made a mistake in assuming that Lorentz's theorem applies exclusively to the gravitational force or, more precisely, to gravitational curvature.

We emphasize once again that time cannot be modeled as an external scalar quantity, as is generally the case in the well-known space R^4 , but must be woven or integrated with the three geometric axes xyz while remaining perpendicular to them, which is satisfied by equation 1.

A notable example is the famous method of separation of variables in time-dependent partial differential equations.

In the theory of separation of variables we assume that the separation of variables is established by looking for a solution in the form [1,21,24,25]:

$$f(x,t) = f_1(t) * f_2(x) \dots \dots (2)$$

is the most absurd theorem in history.

It is misleading because time must be intertwined with the geometrical axes x, y, z and at the same time kept orthogonal to those axes, not separated as in the case of equation 2 or of R^4 space in general.

The mathematical application of equation 2 literally kills the arrow of time in physical situations.

Finally, in this article, we present and address five urgent and still unanswered questions:

1-How to apply equation 1 to generate Einstein theory of general relativity in one sentence,

2-What is the correct numerical value of the gravitational constant G and, the numerical value of the dark energy temperature (in Kelvin or electron volt) near the surface of the sun?

3- How can equation 1 be applied to generate an accurate solution for the Bohr hydrogen atom without using Bohr's hypothesis $E=nhf$ with $n=1,2,3, \dots$ up to infinity?

4- How can equation 1 be applied to obtain the famous Boltzmann normal distribution?

5- How to apply equation 1 to find the solution of n simultaneous linear algebraic equations?

In order not to worry too much about the details of the introduction let us go directly to section II the theory.

II-Theory and Numerical results

In this section, we explain in more detail the theory and applications of each element of the five interrogations mentioned in the introduction, through a series of five questions and answers covering many gaps in physics and mathematics.

Q1

Assuming that the Lorentzian theorem in unitary 4D xyzt space, namely,

Stress tensor S x Curvature tensor C = I (1)

Is the only law of physics which is in a way the theory of everything that applies well classical and quantum physics then how the stress and strain tensors are consistently and uniquely defined for a field of energy density $U(x,y,z,t)$ in the 4D unitary xyzt space?

A1

The first breakthrough here is to extend the Cauchy Riemann stress tensor to the 4Dunitary xyzt space where this extension is logically assumed as,

Fxx Fxy Fxz Fxt

Fyx Fyy Fyz Fyt

Fzx Fzy Fzz Fzt

Ftx Fty Ftz Ftt

The second breakthrough is to express the above Stress tensor in terms of Laplacian ∇^2 as follows,

$$\nabla^2_{xx} \nabla^2_{xy} \nabla^2_{xz} \nabla^2_{xt}]U(x,y,z,t)$$

$$\nabla^2_{yx} \nabla^2_{yy} \nabla^2_{yz} \nabla^2_{yt}]U(x,y,z,t)$$

$$\nabla^2_{zx} \nabla^2_{zy} \nabla^2_{zz} \nabla^2_{zt}]U(x,y,z,t)$$

$$\nabla^2_{tx} \nabla^2_{ty} \nabla^2_{tz} \nabla^2_{tt}]U(x,y,z,t)$$

We call the above stress tensor or matrix M1.

Note that transition matrix summation $B+B^2+B^3+\dots$ for finite number of iterations or time jumps N is a tensor whereas for N tends to infinity it turns into matrix.

The third breakthrough is to assume that the multiplication of the tensors involved in Equation 1 below is indeed the same as the generalization of the universal law called Cauchy-Riemann tensor in 4D unit space xyzt.

$$M1 * M2 = I \dots \dots (3)$$

Where M2 is the strain or curvature tensor.

The forth breakthrough here is that we should properly define and express the curvature tensor M2 in terms of ∇^2 as follows,

$$M2 =$$

$$\nabla^2_{xx} \nabla^2_{xy} \nabla^2_{xz} \nabla^2_{xt}$$

$$\nabla^2_{yx} \nabla^2_{yy} \nabla^2_{yz} \nabla^2_{yt}$$

$$\nabla^2_{zx} \nabla^2_{zy} \nabla^2_{zz} \nabla^2_{zt}$$

$$\nabla^2_{tx} \nabla^2_{ty} \nabla^2_{tz} \nabla^2_{tt}$$

Now, the multiplication $M1 * M2$ in equation 1

gives the correct expression for general relativity equation in matrix form.

The Lorentzian theorem in unitary 4D xyzt space, namely,

$$M1 * M2 = I \dots (3)$$

generates the Einstein GR in one sentence.

Note that The physical meaning of equation 3 is that the 4D unitary xyzt space is preserved or conserved under motion.

Furthermore, it can be applied to solve the numerical value of dark energy in electron volts or in Kelvin.

Note again that Equation 3 is the theory of GR by itself.

Note also that the curvature C is proportional to the energy density U in any case, and not necessarily to the gravitational energy density as Einstein's hypothesis suggested.

Also note that the previous analysis suggests that the locus of gravitational energy density is in the vacuum near the surface of the sun, which accounts for 99% of the mass and gravity of the solar system.

Assuming that the graviton is responsible for transmitting gravity force it should be found in the far space near the sun not on earth.

Calculating gravitation

The numerical vales in cosmic tables presents the following:

Universal gravitational constants:

$G=6.7E-11$ MKS, Mass of the sun $M_s=2. E30$ Kg and R_s radius of the sun= $7E8$ m.

The experimentally measured result for the curvature of spacetime near the surface of the Sun, C, is $C = E-2 \text{ m}^{-1}$ near the surface of the Sun.

This is almost the same numerical value for spacetime curvature C near the sun surface obtained theoretically by Cairo techniques and

by Einstein in his general relativity and is in fact the reason behind Einstein far reaching success in his general relativity.

The question arises:

assuming that the numerical value of C obtained by Einstein has been confirmed by cosmic measurements, do we need other cosmic measurements to confirm the same C obtained by the techniques from Cairo [17,18,19,20]?

The answer is NO.

Q2

What is the numerical value of the gravitational constant G and the numerical value of the dark energy temperature in Kelvin or electron volt?

A2

The theory of Cairo techniques shows that:

$$U(x,y,z,t \text{ tends to infinite}) = D * (b+S) \dots (4)$$

B is the Dirichlet boundary conditions which is the amount of dark energy in free space near the surface of the sun.

Equation 2 shows that the spacetime curvature near the surface of the sun is composed of two components [2,3,44,5,6]:

$$C=C1+C2 \dots (5)$$

Where C1 results from equation 1 and C2 is the value of the dark energy on the boundary surface of the sun.

The value of gravitational constant G in equation 1,4,5 can be arbitrary which means any chosen value for G satisfies the equations since C1 is complimented by C2.

Two unknowns and a specifying equation.

Einstein assumed that the gravitational constant G was equal to zero, which is neither wise nor acceptable, but we assume that G is approximately $6.6743 \times 10^{-11} \text{ m}^3 \cdot \text{kg}^{-1} \cdot \text{s}^{-2}$ in accordance with experimental measurements on Earth [1,6].

The result of the above choice is that the spacetime curvature is equally divided between $C1$ and $C2$ as $1E-2$ each and both specify the value of the dark energy on the boundary surface of the sun of 3 ev.

The claim of incompleteness and incorrectness of Einstein GR and SR despite it was proved by GPS measurements is supported by counterwise questions [1,3,4,5,24,25]:

Counter-question i

Why Einstein failed to derive SR from GR simply by equating acceleration to zero?

Answer i

SR and GR remain two distinct theories up to this day.

Counter-question ii

Did Einstein ever got a scientific prize for his GR or SR?

Answer ii

The answer is no but on the opposite he was met by opposition explained in the article 100 authors against Einstein.

Note that Einstein awarded Nobel Prize in 1916 for his contribution equation in photoelectric effect, $hf = W + 1/2 m v^2$ maximum.

Counter-question iii

Did Einstein ever succeed in defining time t ?

Answer iii

On the contrary Einstein never succeeded in finding rigorous definition of time and stated once that time is an illusion [1,23,24,25].

The result is that all of Einstein's equations are limited in time to explain only the current stationary state and never predict the future or what will happen tomorrow.

Unlike the golden rule where time is irreversible.

Q3

Can the same Lorentzian theorem in unitary 4D xyzt space, namely,
 $M1 * M2 = I \dots \dots (1)$

Be applied to solve the energy density of a quantum system in the general case?

A3

The brief answer is yes.

Bohr Atomic Model

The diagram shows a central nucleus with four protons and four neutrons. Four concentric circular orbits are labeled n=1, n=2, n=3, and n=4. An arrow indicates an electron jumping from n=3 to n=2, with 'Energy Released' written next to it.

- Electrons orbit nucleus in fixed orbits called energy levels ($n = 1, 2, 3 \dots$).
- Lower orbits = lower energy
- Electrons emit/absorb specific amounts of energy when jumping between levels
- $E_n = \frac{-13.6 \text{ eV}}{n^2}$ $n = \text{Energy Level}$
- Explains Hydrogen's spectral lines
- $hf = E_i - E_f$
 $hf = \text{Energy released or absorbed}$

$E_n = \frac{-13.6 \text{ eV}}{n^2}$
 $n = \text{Energy Level}$

Physics for +2 Level

Fig.1.Bohr classical model for H-atom

The statistical theory of Cairo techniques proposes the following powerful quantum transfer matrix D [16,17,18,19,20]:

D 19x19=

247/400	9/16	-9/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1/2	1/25	3/5	-7/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-7/50	21/40	53/200	91/200	-21/200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	-21/200	39/100	23/50	33/100	-3/40	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	-3/40	11/40	5/8	9/40	-1/20	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	-1/20	9/50	19/25	7/50	-3/100	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	-3/100	21/200	173/200	3/40	-3/200	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	-3/200	1/20	47/50	3/100	-1/200	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	-1/200	3/200	197/200	1/200	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	1/200	197/200	3/200	-1/200	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	-1/200	3/100	47/50	1/20	-3/200	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	-3/200	3/40	173/200	21/200	-3/100	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	-3/100	7/50	19/25	9/50	-1/20	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	-1/20	9/40	5/8	11/40	-3/40	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3/40	33/100	23/50	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39/100	-21/200	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-21/200	91/200
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53/200	21/40
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-7/50	3/5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1/25	1/2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-9/50	9/16
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247/400	0

Note that,

$D^2=D$ and hence $Q^2=Q$ which is property of quantum eigen matrix.

This type of matrices $A=A^2$ is called in physics idle matrix and in mathematical terms,

an idempotent matrix has eigenvalues ev of 0 or 1 which satisfy the golden rule $ev = ev^2$ [2,4,5,18,19,23].

Therefore the stationary energy levels Of Bohr H-atom or solution vector b of matrix $D_{19 \times 19}$ is obtained by multiplying the matrix $D_{19 \times 19}$ above by the vector $13.6 \text{ ev}/n^2$ shown in Fig,1.

The numerical results obtained is as follows

$b^* = (-0.1403, -0.163, -0.2121, -0.2769, -0.377, -0.5404, -3.435, -13.6 \text{ ev} \dots \text{etc})^T$

This stationary distribution is sometimes called quantum particle in a central field.

the vector b above is the eigen vectors of the transfer matrix D with eigen value $ev=1$ only if

$Q.b^* = b$.

The numerical result of matrix multiplication above is $b^* =$,

$[-877/6250 \ -163/1000 \ -10607/50000 \ -13843/50000 \ -377/1000 \ -54041/100000 \ -167633/200000 \ -74419/50000 \ -687089/200000 \ -68/5 \ -687089/200000 \ -74419/50000 \ -167633/200000 \ -54041/100000 \ -377/1000 \ -13843/50000 \ -10607/50000 \ -163/1000 \ -877/6250]^T$

The above values correspond almost exactly to the values obtained by N. Bohr in Figure 1.

In other words it is almost exact that $b^*=b$.

Note also that $Q^2=Q$ which is property of idle quantum eigen matrix.

Q4

How can equation 1 be applied to obtain the famous Boltzmann normal distribution?

A4

The Numerical derivation of Normal/Gaussian distribution formulas via the chains of the matrix B is well explained in reference 13 so we content ourselves here with presenting the significant result.

If we use the closed B matrix (Bc) 15X15, we arrive at the following distribution explained in ref.[3,4,5,6,13],

0.0000000

0.0000000

9.765625E-4

9.7656250E-3

4.3945313E-2

0.11718750

0.20507813

0.246093750

0.20507813

0.11718750

4.3945313E-2

9.7656250E-3

9.765625E-4



0.000000

0.000000

Q5

How to apply equation 1 to find the solution of n simultaneous linear algebraic equations?

A5

The transition matrix B for a 2D square with 9 equidistant nodes, shown in Figure 2/4, is given by [22,23,24,25],

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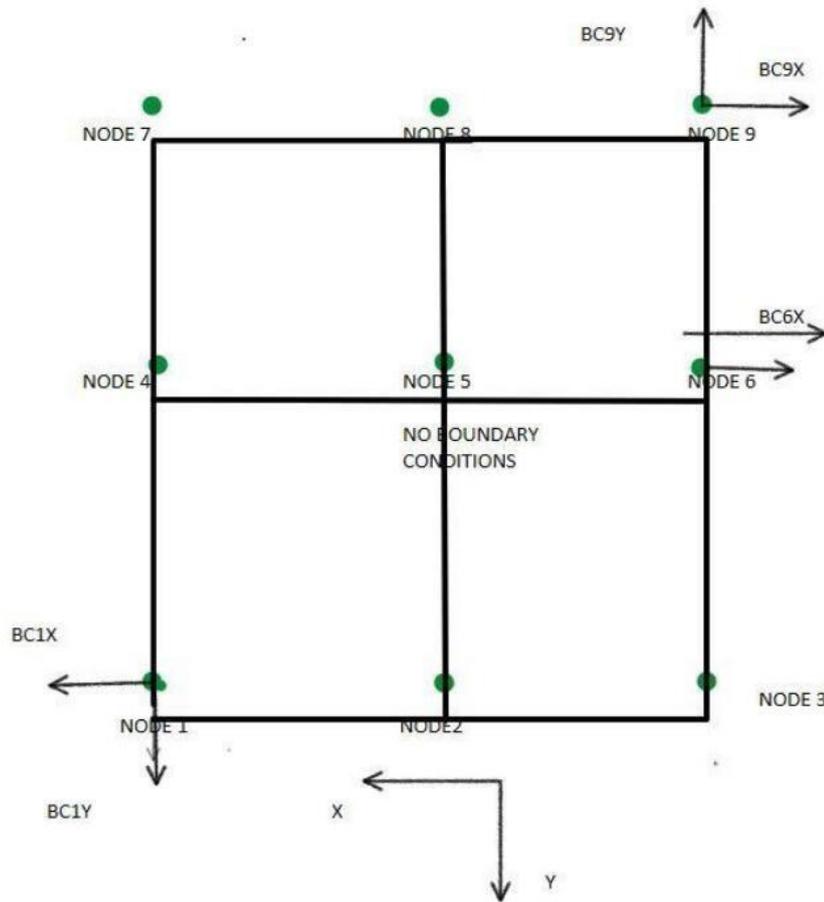


Fig.4. A 2D square discretized in 9 equally spaced free nodes subject to Dirichlet BC in general case.

B9x9=

0 1/4 0 1/4 0 0 0 0 0 1/4 0 1/4 0 1/4 0 0 0 0 1/4 0 1/4 0 1/4 0 0 0 1/4
 0 0 0 1/4 0 0 1/4 0 0 1/4 0 1/4 0 1/4 0 1/4 0 0 0 1/4 0 1/4 0 0 0 1/4 0
 1/4 0 0 0 0 1/4 0 0 0 0 0 1/4 0 1/4 0 1/4 0 0 0 0 1/4 0 1/4 0

The E transfer matrix is given by,

$$E=1/(I-B)E$$

551/457 188/457 68/457 188/457 133/457 60/457 24/457 96/457
 39/457 3/7 19/14 3/7 5/14 4/7 2/7 1/7 772/3199 1544/3199
 4020/3199 1544/3199 1384/3199 1504/3199 236/3199
 944/3199 612/3199 1261/3199 1845/6398 533/3199
 8243/6398 1896/3199 766/3199 887/6398
 1774/3199 635/3199 855/3199 1710/3199 988/3199
 1710/3199 4997/3199 1732/3199 510/3199
 2040/3199 943/3199 456/3199 912/3199 1380/3199
 912/3199 1812/3199 4336/3199 272/3199
 1088/3199 1356/3199 276/3199 552/3199 1172/3199
 552/3199 760/3199 604/3199 3532/3199 1332/3199 484/3199
 332/3199 664/3199 668/3199 664/3199 1656/3199 912/3199
 1096/3199 4384/3199 1324/3199 197/3199 394/3199 512/3199
 394/3199 867/3199 1312/3199 342/3199 1368/3199 3869/3199

Step 2

The D transfer matrix is obtained via the relation,

$$D=E-I$$

Therefore, D_{9x9}= . . . etc

The D matrix is the required solution of any 9 simultaneous linear algebraic equation system expressed as,

$$a_{11}.x_1 + a_{12} .x_2 + a_{13} . x_3 + \dots + a_{19} .x_9 =b_1$$

$$a_{21}.x_1 + a_{22} .x_2 + a_{23} . x_3 + \dots + a_{29} .x_9 =b_2$$

.....

$$a_{91}x_1 + a_{92}x_2 + a_{93}x_3 + \dots + a_{99}x_9 = b_9$$

Surprisingly, multiplying the matrix $D_{n \times n}$ by the vector \mathbf{b} yields the desired solution $[x_1, x_2, \dots, x_9]$ without resorting to classical methods such as matrix inversion, triangulation, iteration techniques, etc

III-CONCLUSION

Nature is statistically symmetric and bounded (1).

Moreover Nature obeys the golden rule of time irreversibility as implied by the second law of thermodynamics.

Every physical or mathematical problem has a natural statistical solution that works in appropriate bounded control volume which is in itself the theory of Cairo techniques.

The closed control volume CV contained in closed area A subject to the Dirichlet boundary conditions is a part of the statistical theory of Cairo techniques.

In this article we answered 5 important and urgent questions:

1-How to apply equation 1 to generate Einstein theory of general relativity in one sentence,

2-What is the numerical value of the gravitational constant G and , the numerical value of the dark energy temperature in Kelvin or electron volt?

3- How can equation 1 be applied to generate an accurate solution for the Bohr hydrogen atom without using Bohr's hypothesis $E=nhf$ with $n=1,2,3, \dots$ up to infinity?

4- How can equation 1 be applied to obtain the famous Boltzmann normal distribution?

5- How to apply equation 1 to find the solution of n simultaneous linear algebraic equations?

The numerical solution results are stable and accurate.

Finally, it should be clarified again that this article is not intended to minimize the major contributions of greatest physicists and mathematicians of their time such as Einstein, Schrödinger, Heisenberg, Minkowski, Hilbert, and Riemann, among others, but rather to address the main slips and limitations of their theories, where applicable.

NB. The author uses his own double precision algorithm in Fortran language, such as that of references 31,32,33,34.

No ready-to-use Python or MATLAB algorithms are needed.

Acknowledgement

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An experience that was both enjoyable and rewarding until he later became a professor and head of the Department of Basic Sciences, which comprises experimental and theoretical physics as well as pure mathematics.

During this long experience. He went to the Atomic and Nuclear Physics Center in Toulouse, France, where he earned his doctorate and worked as a professor at ULP and UPS Universits, as well as a research director at CNRS in France.

The last experience, as with the first, was an opportunity to collaborate with the best leaders and the latest scientific knowledge.

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