I MUST DO MY DUTY

(**continue**)

I.G. Goriacvhko, St. Petersburg, in March, 08.

Quantified body’s motions are realized in Universe in varity thermodynamical conditions (p, T) and accompanied by the variable also quantified electromagnetic and gravity fields forming the general **ethe**r. But these fields may be arisen only at the expense of changed their **charges** and **masses**. The harmony of Nature needs in the unity of its mathematical description as **in mechanics** **as in thermodynamics** which practicable by the **full differential‘s** mathematical method (which successfully is used in thermodynamics). Because that the full system of the quantum mechanics laws must be described as it shown at the left side of table 1. Laws (a), (b) is obtained by means the next vectors equations: for the impulse , for the moment of impulse From the right side for comparing is given the full system of Newton's mechanics laws.

**5. Quantum mechanics**

#### Table 1

|  |  |
| --- | --- |
| **Quantum mechanics laws** | Newton’s mechanics laws |
| , (a)  where =- the force by Newton. (N) | , (a’)  where=- the force by Newton(N). |
| , (b)  where - the moment of force. (M) | (b’)  where - the moment of force. (M) |
| (c) | (c’) |

In Newton’s laws (a’), (b’) parameteris absent (i.e.). Because of that these laws are **incorrectly** as of physical as of mathematical standpoints. On the **physical** point of view **all** the parameters () for the **circle** () body’s motion – are **constancy**. Therefore,  (i.e. the **doubt**). On the **mathematica**l point of view these laws (**excepting** (N)) – are not the **full differentials**. But **all** the laws ( a),( b ),(c) –are the **full differentials**.

The explanation 3. The impulse  Because of that must be describing , where  – the **integrating factor**. Therefore, 

The verification. Let us takes up the planet’s motion around the Sun. By means of (1) and Newton law (assume that the Sun immovable) we obtain Therefore, on the one side – the **centripeta**l force. But on the other side  the **centrifugal** force. Because this From (a), (b) for the **two** bodies interaction may be received as **all** the **well known** mechanic’s laws:, as the **unknown** **quantum** mechanic’s laws:If  we obtain the Third Newton’s law and  -(i.e. the well known **equilibrium conditions** of a body). And etc.

**6. The quantum corpuscular-wave theory**

It is considered that modern corpuscular-wave theory applicable to any types of particles (i.e., to the changed and neutral ones). By means of (1) and (B’) they may be obtained the adjusted (i.e. the **quantum**) laws of the corpuscular-wave theory (see the left side of the table 2. On the right side for comparing is given the ruling redaction of this theory).

### Table 2

|  |  |
| --- | --- |
| **The quantum corpuscular- wave theory** | The modern corpuscular- wave theory |
| The kinetic energy = | ----------------------------------------------------------------- |
| The potential energy | ----------------------------------------------------------------- |
| The equation | The equation |
| The impulse | The impulse |
| The full energy | The full energy ( !) |

Here  Plank’s constancy, the angular frequency, the wave date, the wavelength, the wave’s velocity, the particle’s mass, the unit vector. With regard to the parameter in all of these laws see P. 3.

It must be especially notes that **all** the laws of the tables 1 and 2 are carried up **at a time**. But the role of the **major** law belongs to the **quantum law of conservation the full energy.**

Thank you. To the next report in April, 12. G.I.G.