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DOES EXPERIMENTAL VALUE OF
PLANCK'S CONSTANT: $6.62607015 \times 10^{-34}$ J.S NEED MODIFICATION
IN VIEW OF THE DISCOVERY OF
EXACT π ; $\frac{14-\sqrt{2}}{4}$? (371 st Prof on Rho)

The concept Planck's constant
is a basic feature of our physical
world. It is related to the
quantization of light and matter.

The present value is $6.62607015 \times 10^{-34}$.

It is an experimental value and
has been modified ^{now and then} in view of
the advancement of understanding
many basic physical concepts.

In this study, we study the
value setting aside all experimen-
tal physical parameters and taking
mathematical application purely.
It may look, however, unrelated
to Planck's constant.

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Some scientists say the world is basically mathematically designed. Hence, this attempt may be looked into non-seriously:

Step 1 Let us divide Planck's Constant with 8.

$$\frac{\text{Planck's Constant}}{8} = 6.62607015 \times 10^{-34} \text{ J.s}$$

We take into consideration just

$$\frac{6.62607015}{8} = 0.82825876875$$

Step 2 From quark to star all are spherical. π constant is part and parcel of any sphere.

The exact value of π is now known and is $\frac{14-\sqrt{2}}{24}$. We come to

know for the first time that $\sqrt{2}$ is the soul of exact π .

What is $\pi^3 - 3$?

$$\frac{14 - \sqrt{2}}{4} - 3 = \frac{2 - \sqrt{2}}{4} = 0.146446660941$$

Step 3

$$(\pi - 3) \times 4 \times \sqrt{2} = 0.146446660941 \times 4 \times \sqrt{2} \\ = 0.82842712476$$

Step 4

We see in Step I the value
0.82825876875; And now
in Step 3 we see 0.82842712476.

Step 5

Does this similarity between
the two values accidental or does
this similarity between or does
have a clear cut interrelationship
involving many parameters
that participate while arriving
the value $6.62607015 \times 10^{-34}$ J.s.
?

To go further, it is assumed that the present value needs a modification, when mathematical difference is a significant factor to probe further.

Step. 6

$$\text{Present value} = 0.82825876875 \quad (\text{Step. 1})$$

$$\text{Mathematical value} = 0.82842712476 \quad (\text{Step. 3})$$

Dirac Constant = $h = \frac{h}{2\pi}$
also needs modification.

Step. 7

for 6.62607015 — value is 0.82825876875
? — when 0.82842712476

$$0.82842712476 \times 6.62607015$$

$$\underline{0.82825876875}$$

$$= 6.62741699807 \times 10^{-34} \text{ J.s.}$$

The real Planck's Constant may be

$$6.62741699807 \times 10^{-34} \text{ J.s.}$$

Thank God

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