ELECTROMAGNETIC MASS OF AN ELECTRON

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The concept of electromagnetic mass of an electron guesses idealized judgment that all mass of an electron is equivalent to not quantum electromagnetic energy of an electron.

Let's guess a hypothesis that the part of mass of an electron is equivalent to electromagnetic energy of an electron.

In article [1] the factor of the relation of a natural electrical charge to an elemental electrical charge is used.

$$q_n / q_e = \sqrt{1/2\alpha} = 8{,}275\ 999\ 990 \pm 0{,}000\ 000\ 0014,$$

where α – is fine-structure constant [2].

In representations of article [1] about electromagnetic mass of an electron is used.

$$m_e = q_n / q_e \cdot m_n,$$

where m_n – is electromagnetic mass of an electron; m_e – electron mass.

In representation of article [1] about use of the semi multiple quantity equal 39,5, for definition of a quark mass unit which approximately is supposed to be related to least quantity of mass of a quark, are given.

$$m_q = 39{,}5 \cdot m_n,$$

where m_q – it is mass of a quark unit.

Let's present one of effects of article [1] in the form of hypothetical analogue of the periodic table of D. Mendeleev, with use of analogy of periods, groups and blocks of a periodic table taking into account a mass unit of a quark, spotted as 39,5 electromagnetic masses of an electron.

${}^{2}_{1}down$			${}^{1}_{2}up$
${}^{39}_{3}strange$	${}^{523}_{4}charm$	${}^{1714}_{5}bottom$	${}^{71152}_{6}top$

References

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