THEORY OF ELECTRONS SYSTEM

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Abstract. This article tries to unified the four basic forces by Maxwell equations, the only experimental theory. Self-consistent Lorentz equation is proposed, and is solved to electrons and the structures of particles and atomic nucleus. The static properties and decay are reasoned, all meet experimental data. The equation of general relativity sheerly with electromagnetic field is discussed as the base of this theory. In the end the conformation elementarily between this theory and QED and weak theory is discussed.

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1. Bound Dimensions

A rebuilding of units and physical dimensions is needed. Time $s$ is fundamental. We can define:
The unit of time: $s$ (second)
The unit of length: $cs$ ($c$ is the velocity of light)
The unit of energy: $\hbar/s$ ($\hbar$ is Plank constant)

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The unit dielectric constant \(\epsilon\) is
\[
[\epsilon] = \frac{[Q]^2}{[E][L]} = \frac{[Q]^2}{\hbar c}
\]
The unit of magnetic permeability \(\mu\) is
\[
[\mu] = \frac{[E][T]^2}{[Q]^2[L]} = \frac{\hbar}{c[Q]^2}
\]
The unit of \(Q\) (charge) is defined as
\[
c[\epsilon] = c[\mu] = 1
\]
then
\[
[Q] = \sqrt{\hbar}
\]
\[
\sqrt{\hbar} = (1.0546 \times 10^{-34})^{1/2} C
\]
\(C\) is charge’s SI unit Coulomb.
For convenience, new base units by unit-free constants are defined,
\[
c = 1, \hbar = 1, [Q] = \sqrt{\hbar} = 1
\]
then the units are reduced.
Define
\[
\text{UnitiveElectricalCharge} : \sigma = \sqrt{\hbar}
\]
\[
\sigma = 1.027 \times 10^{-17} C \approx 64e
\]
\[
e = e/\sigma = 1.5602 \times 10^{-2} \approx 1/64
\]
It’s defined that
\[
\beta := m/e = 1, \quad m := |k_e|
\]
Then all units are power \(\beta^n\). This unit system is called bound dimension or bound unit. We always take the definition latter in this article
\[
\beta = 1
\]
We always take them as a standard unit.
Define a measure \(M := n\beta, \quad [n] = 1:\)
\[
f \cdot M = f \quad M = 1
\]
to apply to the formula of equations.

2. Inner Field of Electron

A-potential of electron is itself wave function of matter, and of course the wave function of A-potential
\[
(2.1) \quad \partial^i \partial_i A^\nu = i A^\mu \partial^\nu A^\mu / 2 + \text{cc.} = \mu j^\nu
\]
\[
\partial^\nu \cdot A_\nu = 0, \quad [A] = \beta
\]
It’s with definition
\[
(A^i) := (V, A), (A_i) := (V, -A)
\]
\[
(J^i) = (\rho, J), (J_i) = (\rho, -J)
\]
\[
\partial := (\partial_t, \partial_{x_1}, \partial_{x_2}, \partial_{x_3})
\]
\[
\partial' := (\partial^i) := (\partial_t, -\partial_{x_1}, -\partial_{x_2}, -\partial_{x_3})
\]
The mass and charge have the same movement.

\[ \mu = \frac{4\pi\alpha}{e^2} \]

3. GENERAL ELECTROMAGNETIC FIELD

We find

\[ (x', t') := (x, t - r) \]

\[ \partial^2_r - \partial^2_t = \partial^2_{r'} =: \nabla'^2 \]

The following is the electromagnetic energy of field \( A \):

(3.1) \[ \varepsilon = \frac{1}{2} < A_{\nu} | \partial^2_t - \nabla'^2 | A_{\nu} > \]

under Lorentz gauge. Normally, the time-variant part gets the mean value.

4. SOLUTION OF ELECTRON

The solution by recursive re-substitution (RRS) for the two sides of the equation is proposed. For the equation

\[ \hat{P}B = \hat{P}B \]

Its algorithm is that

\[ \hat{P} \left( \sum_{k \leq n} B_k + B_{n+1} \right) = \hat{P} \sum_{k \leq n} B_k \]

A function is initially set and is corrected by RRS of the equation 2.1. Here is the start state

\[ A_i = A_re^{-ikt}, \partial_{\mu}\partial_{\mu} A_i = 0 \]

The fields’ correction \( A_n \) with \( n \) degrees of \( A_i \) is called the \( n \) degrees correction.

Firstly

\[ \nabla'^2 \phi = -k^2 \phi \]

is solved. Exactly, it’s solved in spherical coordinate

\[ -k^2 = \nabla^2 = \frac{1}{v^2} \partial_r (v^2 \partial_r) + \frac{1}{r^2 \sin \theta} \partial_{\theta} (\sin \theta \partial_{\theta}) + \frac{1}{r^2 \sin^2 \theta} (\partial_{\phi})^2 \]

Its solution is

\[ \Omega_k := \Omega_{kln} = kj_i (kr)Y_{lm}(\theta, \varphi)e^{-ikt} \]

\[ \phi_k := k\phi_{kln}e^{-ikt} \]

\[ \omega_k := kj_i (kr)Y_{11}(\theta, \varphi)e^{-ikt} \]

After normalization it’s in effect

\[ h = e^{\pm irr}, \quad j = \cos r, \sin r \]

We use the following calculation

\[ \frac{\sin (kr)}{kr} = N \int_{0}^{2\pi} d\varphi \int_{0}^{\pi} d\theta \cdot \sin \theta \cdot e^{i(kr \cos \theta - kr \cos \theta)} \]
There are calculations:

\[(\partial_t^2 - \nabla^2)u = -\nabla'^2u = \delta(x')\delta(t') = \delta(x)\delta(t),\]

\[u := \frac{\delta(t - r)}{4\pi r} = \frac{\delta(t')}{4\pi r'},\]

\[\nabla^2 = \sum_k -k^2 e^{ikr}.\]

Define

\[\delta(t) := \frac{1}{2\pi} \int_{-\infty}^{\infty} e^{ikt} dk\]

\[\delta(0) := \delta(\beta t)|_{t=0}\]

\[\delta(0)\] isn’t a number, which’s expressed by a sequence of number, but many numbers depend on it.

(4.1)

\[< F|F > := \frac{1}{2\pi} \int_{-\infty}^{\infty} e^{ikt} dk\]

The over-line means averaging on time axis. It’s applied at obvious cases.

\[f(t) = \lim_{\beta \to 0^+} e^{-\beta|t|} f(t)\]

It’s equivalent to two-sides Laplace-transform that’s one to one mapping when \(\beta \to 0^+\), especially for some non-integrable functions

\[f(t) * \delta(t) = f(t)\]

\[\delta(t)|_{t \neq 0} = C\beta^2\]

\[\Omega_k(x) * |\Omega_k(x)| = \int \frac{I(\beta x)}{|k|/\beta}\]

\[I(t) := \frac{\delta(t)}{\delta(0)}\]

\[\int \delta^2(t) dt^2 = \int \delta(t) dt^2 = \int dt = \delta(0)\]

\[e^{ikt} e^{ikt}|_0 = \int dt \cdot e^{ikt} e^{-ikt} = \delta(0)\]
\[ \hat{a} := a/|a| \]

5. Electrons

It’s the start electron function for the RRS of the equation 2.1:

\[ A_1^e := i\partial\nu \omega_k(x, t), \quad l \approx 1 \]

Some states are defined as the core of the electron, which’s the start function \( A_1(x, t) \) for the RRS of the equation 2.1 to get the whole electron function of A-potential: \( A = e \)

\[ e^+ : \omega_m(\varphi, t), \quad e^- : \omega_m(-\varphi, -t) \]

\[ e^+ : \omega_m(-\varphi, t), \quad e^- : \omega_m(\varphi, -t) \]

\[ e^+ \to e^- : (x, y, z) \to (x, -y, -z) \]

The electron function is normalized with charge as (5.1)

\[ e =< A^\mu |i\partial_\nu| A_\mu > / 2 + cc. \]

The MDM (Magnetic Dipole Moment) of electron is calculated as the second degree proximation

\[ \mu_z = < A_\nu |\partial_\varphi | A^\nu > \cdot \hat{z} / 2 + cc. = \frac{e}{2m} \]

The spin is

\[ S_z = 1/2 \]

The correction in RRS of the equation 2.1 is calculated as

\[ A - A_i = (A_i^+ \cdot i\partial A_i/2 + cc.)*\frac{u}{4} \]

The function of \( e_i^+ \) is decoupled with \( e_i^- \)

\[ < (e_i^-)^\nu |i\partial_\nu| (e_i^+) > / 2 + cc. = 0 \]

The following is the increment of the energy \( \varepsilon \) on the coupling of \( e_i^+, e_i^- \), mainly between \( A_1 \) and \( A_3 \)

\[ \varepsilon_e = < (e_i^-)^\nu |i\partial_\nu| (e_i^+) > / 2 + cc. \]

\[ \approx -2e^3\beta = -\frac{1}{2.64589 \times 10^{-18}s} \]

Its algorithm is

\[ \frac{2}{2} \cdot \frac{2}{2^2} \cdot \frac{2}{2^6} \]

The following is the increment of the energy \( \varepsilon \) on the coupling of \( e_i^+, e_i^- \), mainly between \( A_1 \) and \( A_7 \).

\[ \varepsilon_e = < (e_i^-)^\nu |i\partial_\nu| (e_i^+) > / 2 + cc. \]

\[ \approx -\frac{1}{2}e^3\beta = -\frac{1}{1.78625 \times 10^{-10}s} \]

Its algorithm is

\[ \frac{2}{4} \cdot \frac{4}{2^6} \cdot \frac{2}{2^6} \]

and

\[ < \cos^6(t - \varphi) \cos(t + \varphi) > \]

\[ = < \cos(2t) \cos^2\varphi (\cos^4 t \cos^4 \varphi - \sin^4 t \sin^4 \varphi) > \]
\[ = -2 \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot N \]

The following are stable naked particles:

- **particle**
- **electron**
- **photon**
- **neutino**

**notation**

- \( e^+_r \)
- \( \gamma_r \)
- \( \nu_r \)

**structure**

- \( e^+_r \)
- \( (e^+_r + e^-_r) \)

6. **System and TSS of Electrons**

The following is the isolated system of particle \( x \)

\[ A = \Phi \star e_x \star e \sum_c e_c = \Phi \star x \]

\( e_c := \pm e, \quad d := (r, l) \)

There are transforms for the initial wave

\[ \Phi \star e_x \star -e_c := h(t) \cdot (\Phi \star e_x)(-x, -t) \star e_c \]

\[ \Phi \star e_x \star *e := h(-t) \cdot (\Phi \star e_x)^* \star e_c \]

They’re the four split tracks of \( SO_4 \) divided by Lorentz Transform, with the same pathes. Wave functions are the scalar representation of translations. \( \Phi, e_x \) is probability of matter (single electron). They are normalized with dependency

\[ < e_x | e_x > = 1, \quad < \Phi | \Phi > = 1 \]

Dimension is included. This A-potential is called **EM field**.

**Make the action of EM energy to find the law of physics.**

For the isolated particle \( x \),

\[ \delta( < x^\nu | \partial^\mu \partial_\mu | e_\nu > / 4 + cc. ) = 0 \]

Transient steady state (TSS) is monochromatic and use the equation 6.1

\[ \partial^\mu \partial_\mu e_x = 0 \]

\[ e_x := k_x \Omega_{k_x}(x) \]

\( e_x \) here is called a light state (LS).

By calculating the normalization of the number of isolated particle \( x \) in probability (13.2)

\[ (6.1) \quad 1 = < e_{xc} \star e_{\nu} | e_{xc} \star e_{\nu} > \]

\[ |k_x| = n_x, \quad n_x := < \sum_c e_{xc} | \sum_c e_{xc} > \]

The number of electrons (i.e. branches) conserves

\[ < \sqrt{N} \Phi \star e_{xk} \star e_{k}^\nu | \sqrt{N} \Phi \star e_{xk} \star e_{k\nu} > = \delta_{kk} \]

Its mechanical or probabilistic physical is calculated so, such as static charge and momentum, angular momentum

\[ (6.2) \quad p_{\nu c} = < \sqrt{N} e_{\nu} \star e_x \star e_c | - \frac{\sqrt{N} c}{m} i \partial \cdot \Phi_{\nu} \star e_x \star i \partial_t e_c > \]

The gross momentum is

\[ \sum_c p_c \]
Its wave-function of e-current is explained probabilistically:

\[ \mu J = \langle \Phi e_{\mu} e^{\nu} | i \partial \cdot \Phi e_{\mu} i \partial \xi e_{\nu} \rangle \]

It conserves the gross interactive between EM field and mechanical fields. The electromagnetic physical such as MDM, EM interactive potential, etc. is calculated so.

For these reasons the EM field is also meet the equation as electromagnetic field

\[ < A_i | \partial^\mu \partial_\mu | A_i > = < A^\nu | \mu J_i | A_\nu > \quad m = 1 \]

7. Muon

\[ \mu^- : e_\mu \star (e^- \star - *e^+ + *e^+) \quad e_\mu = e_x (k_x = -3 \beta) \]

\[ \mu \text{ is approximately with mass } 3m/e = 3 \times 64m \quad [3.2][1] \quad \text{(The data in bracket is experimental by the referenced lab), spin } S_e \text{ (electron spin), MDM } \mu_B m/k_\mu. \]

The main channel of decay is

\[ \mu^- \rightarrow e^- \nu_l \quad \xi^- \rightarrow -e^+ + \nu_r \]

\[ e_\mu \star (e^- \star - *e^+ + *e^+) \rightarrow e_\mu \star (e^- \star + \nu_l) \Rightarrow \phi \star e^- \star \phi^* \nu_l \]

Its main life is

\[ \varepsilon_\mu := < e_\mu \star (e^+ \star)_{\nu} | e_\mu \star (i \partial_\lambda)^2 (e^- \star)_{\nu} > / 2 + cc. \quad m = 1 \]

\[ \varepsilon_\mu = \frac{\beta e^2 \varepsilon_x}{k_\mu} = - \frac{1}{2.2015 \times 10^{-6} s} \quad [2.1970 \times 10^{-6} s] \]

It’s applied that the conservations of momentum (in any direction) and angular-momentum in mass-center frame.
8. Pion

The pion is perhaps an atom
\[ \pi^\pm : (e_l^- + *e_r^+, e_l^+ \) \]

Decay Channels:
\[ \pi^- \rightarrow e^-_r + \nu_l, \quad e^-_r \rightarrow -e^+_l + \nu_r \]
The mean life approximately is
\[ -\frac{e\varepsilon_x}{2} = \frac{1}{2.3 \times 10^{-8}s} \quad [(2.603 \times 10^{-8}s)] [1] \]
The precise result is calculated with successive decays.

9. Pion Neutral

The pion neutral is perhaps
\[ \pi^0 : (e^+_l + e^+_r, e^-_l + e^-_r) \]

It’s the main decay mode as
\[ \pi^0 \rightarrow \gamma_r + \gamma_l \]
The loss of interaction is
\[ -2e\varepsilon_e = \frac{1}{8.48 \times 10^{-17}s} \quad [8.4 \times 10^{-17}s][1] \]

10. Proton

The proton may be like
\[ p^+ : e_{pl} * (4e^-_r + 3e^+_r + 2e^+_r), \quad e_p = e_x (k_x = 29\beta) \]
The mass is \( 29 \times 64m \) \([29][1]\) that’s very close to the real mass. The MDM is calculated as \( 3\mu_N \), spin is \( S_e \). The proton thus designed is eternal.

The strength of decay is proportional to the gross number of undecayed particles, with which the decay in two independent processes is calculated equivalent to happening simultaneously, and its life (13.1) are also calculated.

11. Neutron

Neutron is the atom of a proton and a muon
\[ n = (p^+, \mu^-) \]
The muon take the first track, with the decay process
\[ \Phi * e_\mu * (e^-_l - *e^-_l + *e^+_l) \rightarrow \Phi * e_\mu * (e^-_l + *\nu_l) \]
\[ e_\mu * (e^-_l + *\nu_l) \Rightarrow \phi * e^-_l + \phi^* * \nu_l \]
Calculate the variation of the action of the open system, the EM energy of its field subtracting the external interaction (in fact, the EM energy TSS),
\[ i\partial_\tau \Phi + \frac{1}{2m_\mu} \nabla^2 \Phi = -\frac{\beta\alpha e}{m_\mu r} \Phi \]
Two of the terms of EM energy are neglected.
\[ \Phi = Ne^{-r/ro}e^{-iE_1t} \]
\[ E_1 = E_B \cdot \frac{\beta^2e^2}{m^2_\mu} \cdot \frac{m_\mu}{m} \]
$$E_B = -\frac{\alpha^2 m}{2} = -13.6\text{eV}$$

It’s approximately the decay life of muon in the track that

$$\varepsilon_n = \beta^2 E_B e^2 \frac{m}{m^2} = -\frac{1}{1019\text{s}}$$

12. Atomic Nucleus

We can find the equation for the fields of \(Z'\) ones of proton: \(\Phi_i\), and the fields of \(n\) ones of muon: \(\phi_i = \Phi_{Z'+\nu}\),

$$\Phi = \sum_i \Phi_i, \quad \phi = \sum_i \phi_i$$

$$\varphi_\nu := \Phi_\nu \ast (\rho/\mu)$$

The gross even EM energy is conservative (and functional variant can’t revulse)

$$I = \sum\mu <\varphi^\mu|\frac{1}{2}\partial^\rho \partial_\nu|\varphi_\nu > /2 + \sum\mu <\varphi^\mu|\frac{1}{2}\partial^\rho \partial_\nu|\sum_{i \neq \mu} \varphi_i > /2 + \text{cc.}$$

Make this action to find the TSS

$$\partial^\nu \partial_\nu \Phi_i = 0$$

and by \(\varphi * u\),

$$<\Phi_i|\Phi_j > = \delta_{ij}$$

and

$$\left(\frac{1}{2}\partial^2 \Phi - ik_p \partial_i \Phi + \frac{1}{2} \nabla^2 \Phi = -(10(Z' + 1)\Phi - 10n\phi)\right)|_{t=0}$$

In advance, with a transform of \(SO_4\) in the action on muon to set

$$\left(\frac{1}{2}\partial^2 \phi - ik_p \partial_i \phi + \frac{1}{2} \nabla^2 \phi = -(10Z'\Phi - 10(n - 1)\phi)\right)|_{t=0}$$

Then, make combination of the both functions

$$\zeta = (\Phi + \phi_\eta)|_{t=0}$$

$$(Z' + 1) - \eta Z' = -n/\eta + (n - 1) =: N$$

$$\eta = \frac{(Z' - n + 2) \pm \sqrt{(Z' - n + 2)^2 + 4Z'n}}{2Z'}$$

(12.1) \(N(Z', n) = \frac{1}{2}(Z' + n - \sqrt{(Z' + n)^2 + 4(Z' - n) + 4)}$$

$$\approx -\chi \quad \chi := \frac{Z' - n}{Z' + n}$$

then

$$-(E^2/2 + E k_p) \nabla^2 \zeta + \frac{1}{2} \nabla^4 \zeta + 10N \nabla^2 \zeta = 0$$

hence

$$E^2 + E k_p - 10N = 0$$

$$E = -\frac{1}{2}(k_p + \sqrt{k_p^2 + 40N})$$

$$\approx -(k_p + \frac{10N}{k_p})$$
For $N = -\chi = -1/3$

$$E \approx -k_p + \Delta, \quad \Delta = 3.76\text{MeV}$$

The groups of muon or proton are with waves of the third layer

$$\Phi_i = e^{-iEt}\Omega_{Elm}$$

12.1. **Decay Energy.** The life-involved energy of proton or muon under the solved wave $\Phi$ is averaged as

$$\varepsilon = \langle \Phi_i \ast (p,\mu)^l | \hat{J}_0/2 | \Phi_i \ast (p,\mu)^l > / 2 + cc. \quad m = 1$$

$$= (11/29 - 2/|E|) \cdot 1/3 + 4/|E| \cdot e^\beta/2 \quad \beta = 1$$

The differential of $1/(2|E|)$ is

$$E_\Delta \approx 1/0.54s, \quad \Delta E = \Delta$$

The decay

$$^{14}C \rightarrow ^{14}N + \mu_C$$

is with zero energy decrease unless the neglected weak crossings are considered.

12.2. **β-stable and Neutron Hide.** In the solutions when a proton combine with a muon the both have the same wave function:

$$\Phi_\mu = \phi_\mu$$

then this terms will quit from the interactional terms of the previous equations, which change to

$$(Z'_x, n_x) \rightarrow (Z'_x - 1, n_x - 1)$$

This will change the flag energy $E$. If a β-decay can’t happen then a dismiss of this neutron hide will help before the timeless departure. Out of the hidden nucleons, the ratio $2 : 1 = Z'_x : n$ between protons and muons causes the most stable state. $z$ is the number of departed muons. So that if

$$-N(Z' + \max(z) + z, n + \max(z) + z) \leq -N(Z' - z, n)$$

The gross state energy is also noticed. The numbers of particles conserve with the hidden and the greatest emission considered.

$$Z + \kappa - h \leq \frac{Z + \kappa - h - z}{3(Z + \kappa) - z}, \quad 8h := 3\kappa^2 + 8\kappa - 16$$

It’s found a critic point

$$\kappa \approx -8 : \quad h \approx 14$$

(between seven and eight) and

$$Z \approx 29$$

By the following result 12.3, conditions $\chi = 1/3$ and $\max(z) = 0$ are specific for this critical point, for the other $Z$ or $\kappa$, the both of which are incompatible.

The condition 12.2 is solved to

$$2(z + \max(z))z < 2\max(z)(Z + \kappa) - (2\max(z) + z)h$$

hence as

$$\frac{1}{4} \leq \chi \leq \frac{1}{3}, \quad z \leq \max(z) = ((Z + \kappa) - 1.5h)/2$$

the reaction is very weak.
Near the stable $\chi$, it’s the Average Binding Mass Per Nucleon according to charge number that

$$\overline{M}(Z) = X \cdot -E$$

$$X = (Z \leq 29) + (Z > 29) \frac{2.0}{2.5 - 10.5/(Z - 8)}$$

*The EM energy is the same of the static (gravitational) mass* (14). For a proton,

$$m_p = \langle \Phi_\nu \ast p | \frac{1}{2} \partial_{\mu} \partial^{\mu} | \Phi_\nu \ast p \rangle \approx k_p$$

The wave’s motive mass is found the flag energy,

$$M_\nu = -E$$

13. **Basic Results for Interaction**

For decay

(13.1)

$$W(t) = \Gamma e^{-\Gamma t}$$

$$\Gamma = \langle A_\nu | \mu \hat{J}_0 / 2 | A_\nu \rangle \big|_{t=0} / 2 + cc. \quad m = 1$$

$$\int_0^\infty W(t)dt = 1 \quad \Gamma = 1$$

$$\int_0^\infty W(t)dt/\Gamma = 1 \quad \Gamma = 1$$

$J_0$ is referenced to 6.3. $\Gamma$ is interactive potential. At the beginning of the variation, the (micro) space variables get unit $\beta^{-1}$, then the value is balanced by measure $m = 1$ (6.4). The interactive by magnetic field (current) makes no work.

The distribution shape of decay can be explain as

$$A_0 e^{-\Gamma t / 2 - ik_x t}, 0 < t < \Delta$$

It’s the real wave of the particle $x$ near the initial time and expanded in that time span

$$\approx \sum_k \frac{C e^{-ikt}}{k - k_x - i\Gamma / 2}$$
By the review of path integral, united probabilities in time axis

$$\sum_{p_t \in M} M(x) \cdot \exp(i \int_{p_t} dt (A^*_{\mu} \partial^\nu A_{\mu} / 4 + cc.))$$

$$= \int dV M(x) \cdot \exp(i \int_{p_t} dt (A^*_{\mu} \partial^\nu A_{\mu} / 4 + cc.))$$

$$= \exp(i \int_{p_t} dV \int_{M(x)} dt M(x) \cdot (A^*_{\mu} \partial^\nu A_{\mu} / 4 + cc.))$$

$$N_t^2 = <A^\nu|A_\nu>, \quad M(x) = (1, 0)$$

The musk $M$ and the path $p_t$ are dropped on the lattice that becomes more and more fine.

$$B_\mu := \exp(i \int_{p_t} dt (A^*_{\mu} \partial^\nu A_{\mu} / 4 + cc.)) = \exp(i \int_{p_t} m u_\mu u_\mu dt)$$

$$B = \exp(i \int_{p_t} m dt)$$

$B_\mu$ is representation of velocity without parasitic oscillations but the exponent

$$< A^\nu|A_\nu > /N_t^2 = <B^\nu * u|B_\nu * u >$$

The solution of its variation is the same of the previously related $A$.

14. GRAND UNIFICATION

The General Theory of Relativity is

$$R_{ij} - \frac{1}{2} R g_{ij} = -k T_{ij}$$

by making the variation of gross even static mass that’s conservative [2]. Then

$$R_{ij} = k(-T_{ij} + \frac{1}{2} T g_{ij})$$

$$T_{ij} = -\frac{1}{\mu} (F^*_{\nu\mu} F_{\mu\nu} - g_{ij} F^*_{\mu\nu} F^{\mu\nu} / 4)$$

15. CONCLUSION

Fortunately, this model explained all the effects in the known world: strong, weak and electromagnetic effects, and even subclassify them further if not being to add new ones. In this model the only field is electromagnetic field, and this stands for the philosophical that the unified world is from an unique source, all that depend on the hypothesis: A-potential is itself a quantum (exactly, Wave Mechanics) process of charge, and the law of the static mass conservative.

My description of particles is compatible with QED elementarily, and only contributes to it with theory of consonance state in fact. In some way, the electron function is a good promotion for the experimental models of proton and electron that went up very early.
References


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