

☞ : The physical society of world is not honest for their duty, but they conceal the serious facts described in the below. This disclosure is necessary & beneficial for future world. All following theories were rejected to publish toward the world by the authority. Author also consider risks caused from exposing the facts, especially influence on religion, ideology & etc of the world.

● Establishing theoretical system of "Quantum Stochastic Mechanics(1990)" :

Time in quantum mechanics is non-observable, but is quantum statistical variable just like as temperature. Caution that under analytically regular (hermitian) Hamiltonian H_0 , realizable quantum state can be proved to be entirely unique of H_0 's eigen one. Thus a general evolutionary system's Hamiltonian must be random alternating sequence of H_0 and H_s (=non-regular with its duration $\Delta t=0$). Quantum process can be described as Markovian in statistical ensemble. Then time dependent Schrodinger equation becomes stochastic one in general, which math-equivalently becomes "the irreversible master equation". Thus so called Quantum Stochastic Mechanics(QSM) was established. Then general relaxation process solution in closed system was derived. Irreversibility such as entropy increasing is derived from the equation. The method is also applicable for general open system. Then such heat beating solution in open system with constant external flow was also derived. In this new theory, there is nothing modelings in its fundamental logical structure.

$$i\hbar \partial_t \Psi = H \Psi. \Leftrightarrow \partial_t \omega = (\Delta E/\hbar) [T-1]\omega. \quad \omega : \text{state density vector.}$$

$$H : \text{Hamiltonian of stochastic operator in an isolated system} \quad \Leftrightarrow \quad T : \text{state transition probability matrix.}$$

$$\Delta E : \text{energy deviation of the mecha-system.}$$

● Establishing theoretical system of "Quantum Gravitational Mechanics≡QQD(1993~5)" :

Gravity is not due to the winding of 4 dim space, but is complete gauge field in linear coordinates in "the form of localized Lorentz transform"(R.Utiyama(1956)) which is math-representation of so called "the principle of equivalent by Einstein(1905)". Then a general gauge field can easily be quantized with Faddeev-Popov ghost. Note that the theory has $SO(N \geq 11; 1)$ gauge symmetry. Then important result²⁾ can be derived as follows.

$$2) : SO(11; 1) \supset SO(11) \supset SO(10) \supset SU(5) \supset SU(3) \times SU(2) \times U(1).$$

Above sequence proves that the QQD is supreme unified theory as standard one of point model of elementary particles. QQD also gave fundamental scenario of creation universe from "nothing" as phase transition sequence of complete gauge field dynamics without employing any artificial modeling. Thus you can see that so called "the super string theory" is evidently of no use!.

● The Completion of Symbolic Logic(1991) :

(1) The Super Completeness Theorem :

What is reality of Goedel's incompleteness theorem(1931)?, which tell that "there must be at least a proposition X of which truth or false never be determined in a non-contradictional theory K including "natural number theory"³⁾". In general, X were proved to be probabilistical phenomena due to singularity of K. So called "Chaos" is mere a "sample process" as deterministic one with the probability zero³⁾ in the "statistical ensemble" of stochastic process. Consequently "a mathematical science can be closed completely in both deterministic theory (completeness theorem) and probabilistical theory(incompleteness theorem)".

³⁾ X in natural number theory(NNT) is "infinity or the maximum number M in N^T ". Note that real number zero of $0^* \equiv 1/M$ is also X. That is, a real number is indefinite in this meaning!.

⁴⁾ Zero probability does'nt means being nothing, but means non-physically observability. A weather of chaos can be predictable in short time duration, but never be in full long time one.

(2) Nothing Low Principle(1996) :

Once a contradiction can be, anything can be also possible. That is, breaking down of causality law. This is a theorem of logic. Then we can observe such being of "contradiction" in physical vacuume. A vacuume polarization initiation is to create particle q and its anti-particle q simultaneously by operator $a^+(p, s, c)$ and $a^-(p, s, c)$. Note that creating q of physical quantities (p, s, c) is entirely equivalent to denying annihilation q of $(-p, -s, -c)$. This is nothing without realizing proposition A and its denying $\neg A$ simultaneously. However its realizing probability is 0, so that it is physically non-observable. Quantum Field Theory itself is still non-contradictional. To tell its very beginning, creation from nothing such as vacuume polarization is non-causalitical. Thus our world shall be created from "nothing low principle" which is constituted from both contradiction(non-observable vacuume) and non-contradiction(observable matter).

● **Economy Network Dynamics(=END(1998))**: <each economy active element is denoted by 1,2,...,K>. Social sum of account books is strict representation of economy of its nation. Then we can establish 5 kind of simultaneous dynamic equations⁵¹ representing economy state by employing variables in books. Then we can also derive whole view of rotational economy dynamics.

⁵¹ $I_j \equiv \sum_{k=1}^K \omega_{kj} I_k \equiv \sum_{k=1}^K i_{kj}$, where $\omega_{kj} I_j \equiv i_{kj} \equiv (j \rightarrow k)$ payment; $i_{jj} \equiv (j \rightarrow j)$ is reserve.
 $I_j(t) \equiv$ total pay of "j" at year t; $\omega_{kj} \equiv i_{kj}/I_j$: pay probability.
 $D_j(t) \equiv$ accumulated debts at t.

(1) $\partial_t \{ \omega_{jj} I_j - D_j \} = \sum_{k=1}^K \omega_{jk} I_k - \sum_{k=1}^K \omega_{kj} I_j$. <j,k=1,2,3,...,K>: Economy Master Equation.
 "selling & buying account sum of j at year t".

- (2) $\omega_{kj} I_j = P_{kj} \times N_{kj} \equiv k$'s price \times k's supply of goods. : micro market balance equation.
 $\sum_j \omega_{kj} I_j = \sum_j P_{kj} \times N_{kj} \equiv P_k \times N_k$. < $P_k \equiv P_{kj}$ >. : market balance equation of "k".
 $\omega_{bj} I_j = R_{bj} \times M_{bj} \equiv b$'s interest \times b's supply of money. : micro monetary market equation
- (3) $\partial_t D_j = \sum_b M_{bj}$. : debt equation.
- (4) $P_{kj} = (1+m_{kj}) P^0_{kj}$. < $P^0_{kj} \equiv$ cost price>. : micro price equation.
 $R_{bj} = m_{bj}$. : micro interest equation.
 $P_k = (1+m_k) P^0_k$. : price equation of "k".
- (5) $N_{kj} =$ External generating parameter (<= modeling>). : micro market scale equation.
 $\sum_j N_{kj} = N_k =$ External generating parameter (<= modeling>). : market scale equation of "k".

⊞: physical dimension of N_k is not that of accounts, so it never be determined only by account principle. Such variable is called "externally generated one". Also price is almost so.

⊞: "END" is so young that there are incompletenesses in their details.

● **Electrical Power Generator (EPG) by Longitudinal "B" Wave**: < $B = -ic \partial_\mu A_\mu / a$ >.

This universe created from nothing so as to satisfy energy law: $0 = +E(\text{matter}) - E(\text{gravity})$. Even on this earth, N-Tesla showed also possibility to create electrical power from nothing by using so called longitudinal scalar electrical wave $\square \phi = -\rho / \epsilon$. QED Lagrangean and the Hamiltonian are as follows. That of scalar field H_s is derived by setting $j_k = H_k = 0$.

⊞: $x_\mu \equiv (x_0 \equiv ict, x_1, x_2, x_3)$, $A_\mu \equiv (A_0 \equiv i \phi / c, A_1, A_2, A_3)$, $j_\mu \equiv (j_0 \equiv ic \rho, j_1, j_2, j_3)$; $a = -1/\epsilon$, $j^\mu \equiv -ic \partial_\mu B$.

$$L_{QED} = -\frac{1}{2} F(\partial_\mu A_\nu - \partial_\nu A_\mu)^2 + ic B \partial_\mu A_\mu + \frac{1}{2} a B B + j_\mu A_\mu$$

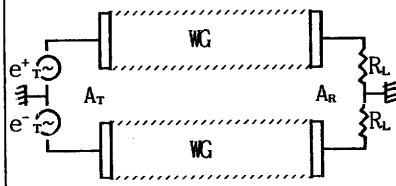
$$H_{QED} = -\frac{1}{2} a B B + \frac{1}{2} [E D + H B] + D \text{ grad } \phi - (j_\mu + j^\mu) A_\mu$$

$$H_s(j=0) = -\frac{1}{2} a B B - \frac{1}{2} E D - (j_0 + j^0) A_0 = -\frac{1}{2} a B B - \frac{1}{2} E D + (\rho + \rho^B) \phi$$

Then we can prove $H_s = 0$ in fundamental and pragmatical plane wave ϕ field with $\rho = 0$.
 $0 = -\frac{1}{2} a B B - \frac{1}{2} E D + \rho^B \phi$. (QED) $\Leftrightarrow 0 = -\frac{1}{2} a B^* B^* - \frac{1}{2} E^* D^* + \rho^{*B} \phi^*$. (QED)

- (1) Radiation ϕ from A_T can be proved to consume nothing energy. (&⊞: $B = -\epsilon \partial_0 \phi$ is called B wave).
 (2) Receiving electrical potential wave ϕ on electrode A_R connecting resistive load R_L to earth ($\phi = 0$) can generate electrical power.

(3) Pragmatical B wave EPG is achieved by using twin ferroelectric cylindrical wave guide system. In the left figure, e^\pm_T are \pm symmetrical radio frequency electrical source supplying $\pm \rho$ charges on A_T , which radiate plane wave $\pm \phi$ propagating to A_R . Simply to tell, $\pm \phi$ are flying electrical cells of alternate current. Thus they can generate currents and electrical powers on R_L when they are captured at receiving electrode A_R . The system's absolute zero potential (<= earth) can be auto-



matically established by \pm symmetrical configuration of twin wave guide system. The wave guide method is indispensable to confine B wave to prevent hazardous leakage of radiation to exterior. The essential feature of ϕ (B wave) is "charge density" = flying electrical cells of AC current.

- (4) **THE DIFFICULTIES FOR REALIZING PRAGMATICAL POWER LEVEL OF EPG**:
 A key is material which realizes low cost and high performance of "ferroelectric WG = FWG".
 ① FWG must be mono-axial crystal for coherent propagation of ϕ . Big size crystal is too expensive. if random axial crystal like ordinary ceramic, propagation of ϕ are scattered to be attenuated. Fortunately BaTiO₃ ceramic becomes mono-axial by temperature phase transition at $T = 120^\circ$.
 ② Low loss of ferroelectric, if not so, e^\pm_T need electrical power to charge A_T .
 ③ The difficulties of rectifying of RF big electrical power. \rightarrow thermal steam power EPG.
 ⊞: We can demonstrate overcritical power by H₂O WG which is low cost, but not good performance.

① THE SUMMARY OF "QUANTUM STOCHASTIC MECHANICS≡QSM(1990)":

[1] : Markovian Feature of Quantum Process :

QSM describes evolution theory of quantum process as statistical ensemble(≡Markov Process).So we first prove Markovian feature of quantum process,which is due to unique eigen state realization of hermitian Hamiltonian H_0 .Then,after all,non-hermitian Hamiltonian $H_s(t)$ must be as singular one.

① H_0 ≡hermitian Hamiltonian's stationarity and necessity of non-hermitian one $H_s(t)$ to evolove.

(1)General linear operator in functional space: $\{|r\rangle\}$: orthogonal function system, $\langle r|s\rangle = \delta(r-s)$.

$$A|r\rangle = \int ds \cdot a_{r,s}|s\rangle = \int ds \int dt \cdot a_{r,s,t}|s\rangle\langle t|r\rangle. \rightarrow A = \int ds \int dt \cdot a_{r,s,t}|s\rangle\langle t|.$$

(2)General hermite operator :

$$\langle s|A|r\rangle \equiv \langle r|A|s\rangle^* = a_{r,s} = a_{s,r}^*. \rightarrow \langle \text{diagonalization by unitary transform } U \rangle.$$

(3)Spectral representation of hermite operator : $\langle (\int ds \cdot U_{p,s,a,t}) \equiv A_p \delta(p-t) ; A_p = \text{real number} \rangle.$

$$A' \equiv U \cdot A = \int dp \int dq \cdot U_{p,q} |p\rangle\langle q| \times \int ds \int dt \cdot a_{r,s,t} |s\rangle\langle t| = \int dp \cdot U_{p,s} |p\rangle \times \int ds \int dt \cdot a_{r,s,t} |s\rangle\langle t| \\ = \int dp \int dt (\int ds \cdot U_{p,s,a,t}) |p\rangle\langle t| = \int dp \int dt A_p \delta(p-t) |p\rangle\langle t| = \int dp A_p |p\rangle\langle p|.$$

(4) H_0 ≡hermitian Hamiltonian and the causalitlity uniqueness.

1:Under hermite Hamiltonian,realizable quantum state must be unique eigen one in its maximum observables.After all,this feature ensures quantum process'es Markovian nature.

$$H_0 = \int d\varepsilon \cdot \varepsilon |\varepsilon\rangle\langle\varepsilon| ; \psi = \int d\varepsilon a(\varepsilon) |\varepsilon\rangle. \rightarrow i\hbar \partial_t \psi = H_0 \psi. \rightarrow a(t;\varepsilon) = a(0;\varepsilon) e^{i\varepsilon t/\hbar}.$$

$\rightarrow \psi = \int d\varepsilon a(0;\varepsilon) e^{i\varepsilon t/\hbar} |\varepsilon\rangle. \rightarrow \partial_t |a(0;\varepsilon) e^{i\varepsilon t/\hbar}|^2 = 0. \rightarrow \text{"nothing quantum state transition!"}$.

$\Delta t \Delta E \sim \hbar$: uncertainty principle of energy deviation and the duration time.

$\{\text{stationarity} \Leftrightarrow \Delta t = \infty\}. \rightarrow \Delta E = 0. \Rightarrow \text{"unique energy eigen state realization of } H_0\text{"}$.

2:Maximum observable of $H_0 \equiv \{A_r | [A_r, H_0] = 0 ; r=1,2,\dots,M\}$.

"realization of unique eigen state of the maximum observable of A_r ."

$A_r = A_r(H_0)$: commutable hermite operator A_r with H_0 is functional of H_0 (Theorem).

Then B_r of canonical conjugate variable of A_r can be proved to be non-commutable to H_0 .

$$i\hbar 1 \equiv [A_r, B_r]. \rightarrow [B_r, H_0] = i\hbar \partial_t B_r \neq 0.$$

Such time dependent physical variable B_r must be indefinite due to stationarity of the system.

Hence we derive $\Delta B_r = \infty. \rightarrow \Delta A_r = 0 \Rightarrow \text{"unique eigen state realization of } A_r\text{"}$.

(5) $H_s(t)$ ≡non-hermitian Hamiltonian enabling quantum transition:

$\langle E \rangle \equiv \langle \psi | H_s(t) | \psi \rangle = \text{non-finite real number} \sim \infty. \rightarrow \Delta E = \infty. \Rightarrow H_s$ is analytically non-regular.

$\Delta E = \infty. \rightarrow \Delta t = 0. \Rightarrow \text{"instantaneous quantum state transition by } H_s(t)\text{"}$.

Example 1) $H_s = \int dx^3 g \chi \psi(x) \gamma^{\mu} A_{\mu}(x) Q_{\mu} \psi(x)$. (=minimal general gauge interaction).

Field operators such as $\psi(x)$ are so called "distributions" due to its commutation relations $\{\psi_{\alpha}(x); i\hbar \psi_{\beta}(x')\} = i\hbar \delta_{\alpha\beta} \delta(x-x')$. Then their product in common singular points never be mathematical defined regularly. Thus H_s must be singular, but not analytically regular. Or as is well-known, H_s results quantum state transition probability, which never be caused from the causality of mathematical regularity. Generally to tell, a probability is caused from essential singularity.

② Time dependent H =Stochastic Hamiltonian=random alternating realization of H_0 & $H_s(t)$:

(1) * $i\hbar \partial_t \Psi = H(t; \dots) \Psi$: Schroedinger Equation as stochastic one with stochastic operator H .

* Markov Process \Leftrightarrow Master equation of state density $\omega_j(t) : \partial_t \omega_j = \sum_k \Gamma_{j,k} \omega_k - \sum_k \Gamma_{k,j} \omega_j$.

$$\omega_j \equiv |\langle j | \Psi \rangle|^2. \text{ In the below we shall research state transition probability rate } \equiv \Gamma_{j,k}.$$

(2) The duration of $H_s(t) = \Delta t = 0. \Leftrightarrow \text{"instantaneous quantum state transition by } H_s(t)\text{"}$.

The realization probability of $H_0 = 1$ in Lebesgue measure. Note that $H_0 |j\rangle = \varepsilon_j |j\rangle$.

(3) "Modified Winer-Kintchin Theorem and The Evolution Principle by Energy Fluctuation".

$$c(\varepsilon; t) \equiv (2\pi\hbar)^{-2} \int_{T(t)} du |\Psi(u)| \exp(i\varepsilon u / \hbar). \quad \langle T(t) \equiv (t - \frac{1}{2}\Delta t, t + \frac{1}{2}\Delta t) ; \infty > \Delta t \sim \hbar / \Delta \varepsilon.$$

$$\omega(\varepsilon; t) \equiv \langle c(\varepsilon; t) | c(\varepsilon; t) \rangle / \Delta T = \Delta T^{-1} (2\pi\hbar)^{-1} \int_{T(t)} du \int_{T(t)} dv \langle \Psi(u) | \Psi(v) \rangle \exp(-\varepsilon(u-v) / i\hbar).$$

$$\int_{-\infty}^{\infty} d\varepsilon \exp(-\varepsilon \Delta u / i\hbar) \omega(\varepsilon; t) = \Delta T^{-1} \int_{T(t)} du \int_{T(t)} dv \langle \Psi(u) | \Psi(u+\Delta u) \rangle \equiv \Upsilon(\Delta u; t) = 1 + i(\varepsilon) \Delta u / \hbar - \frac{1}{2} \langle \varepsilon^2 \rangle \Delta u^2 / \hbar^2 + \dots$$

$|\Upsilon(\Delta u; t)| \approx 1 - \Delta \varepsilon \Delta u / \hbar + \dots = \text{non-decaying probability of initial } |\Psi\rangle \text{ by } H_s(t).$

— Evolution Principle by Energy Fluctuation≡EPF

① $\Theta(t) = \Delta \varepsilon(t) / \hbar$: probability rate of generating $H_s(t)$ causing Ψ 's decay(=state transition).

$\Delta \varepsilon^2 = \langle \varepsilon^2 \rangle - \langle \varepsilon \rangle^2$: energy deviation in state density $\omega(\varepsilon; t)$.

$\Delta \varepsilon \Delta t = \hbar$: "uncertainty theorem" for time and energy.

$\Delta t \approx \hbar / \Delta \varepsilon$: average duration time of H_0 or average rate time of generating single $H_s(t)$.

[2] : Establishing Quantum Stochastic Master Equation :

① 1st order reaction and the state transition probability T_{jk} caused by $H_s(t)$:

$$i\hbar \partial_t \Psi = H_s \Psi \rightarrow \Psi(t) = \Psi(0) + (1/i\hbar) \int_0^t dt_1 H_s(t_1) \Psi(0) + (1/i\hbar)^2 \int_0^t dt_1 \int_0^{t_1} dt_2 H_s(t_1) H_s(t_2) \Psi(0) + \dots$$

$$\rightarrow R_{jk} = (1/i\hbar) \int_0^t dt \langle j | H_s(t) | k \rangle \rightarrow T_{jk} = |R_{jk}|^2.$$

∴ To tell the facts, details of concrete algorithm of T_{jk} have not known yet. However such being of T_{jk} can be proved as follows in very general. → see [3] ③(6).

(1) Any phenomena can be interpreted both by causality law and probability one. ← ⑤

(2) Markovian feature of general quantum process ensures being of Master equation (probability conservation law as taughtology) with transition probability rate $\Gamma_{jk}(t) = \Theta(t) T_{jk}$, where $\Theta(t)$ as PDF of generating H_s on time axis is determined by EPEF. So time independent term R_{jk} must be.

(3) Note that $\Theta(t)$ is determined from the ensemble concept of state density $\{\omega_j\}$, not from each sample process like as R_{jk} where there is nothing ensemble features.

(4) $R_{jk} = (\text{momentum variable term}) \times \int dx^4 \exp\langle (p_r - p_j) x / i\hbar \rangle$. ← QPPT.

Therefore there seems to be at least relation $T_{jk} \propto |(\text{momentum variable term})|^2$.

② Deriving QSM master equation by transition probability rate $\Gamma_{jk}(t) = \Theta(t) T_{jk}$. $\langle \sum_k T_{kj} = 1 \rangle$.

$$\Theta(t) = \Delta t / \hbar = \hbar^{-1} \sqrt{\langle \sum \omega_j \epsilon_j^2 - (\sum \omega_j \epsilon_j)^2 \rangle} = 1 / \Delta t. \Leftrightarrow \Delta t \Delta t = \hbar. \quad \langle \text{uncertainty theorem} \rangle.$$

$$\partial_t \omega_j = \sum_k \Gamma_{jk} \omega_k - \sum_k \Gamma_{kj} \omega_j = \Theta(t) [\sum_k (T_{jk} \omega_k - \sum_k T_{kj} \omega_j)] = \Theta(t) \sum_k (T_{jk} - \delta_{jk}) \omega_k.$$

$$\partial_t \omega_j(t) = [\Delta t(t) / \hbar] \sum_k [T_{jk} - \delta_{jk}] \omega_k. \quad \dots \dots \text{QSM master equation of discrete form.}$$

$$\partial_t \omega = [\Delta t(t) / \hbar] [T - 1] \omega.$$

∴ The right side is $[T\omega - \omega] / \Delta t$. That is finite state density difference by 1st order reaction of T with finite time difference Δt , whereas left is continuous time differential for ω .

[3] : The Features of QSM Master Equation in Isolated Closed System :

① The irreversibility of the equation by $(t \rightarrow -t) \Rightarrow -\partial_t \omega(-t) = [\Delta t(-t) / \hbar] [T - 1] \omega(-t)$.

$$\rightarrow \partial_t \omega(-t) = -[\Delta t(-t) / \hbar] [T - 1] \omega(-t) \neq [\Delta t(-t) / \hbar] [T - 1] \omega(-t).$$

② Entropy increasing law: $S(t) \equiv k_B \sum_j \omega_j(t) \ln[1/\omega_j(t)]$.

$$\partial_t S = \frac{1}{2} k_B \Theta \sum_k (T_{kj} \omega_j - T_{jk} \omega_k) (\ln \omega_j - \ln \omega_k) \rightarrow T_{kj} = T_{jk} \rightarrow = \frac{1}{2} k_B \Theta \sum_k T_{kj} (\omega_j - \omega_k) (\ln \omega_j - \ln \omega_k) \geq 0$$

③ The Solution of General Relaxation Process in Isolated Closed System :

(1) Markov chain expansion solution: $\omega(t) = \sum_{n=0}^{\infty} R_n(t) T^n \omega_0$. $\langle \omega_0 \equiv \omega(0) : \text{initial state} \rangle$.

(2) $R_n(t)$ is the probability of realization of "n"th order reaction at time=t.

$$R_n(t) \geq 0; 1 = \sum_{n=0}^{\infty} R_n(t). \Rightarrow (5) : \text{Domino-propagation of peak value of } R_n (n=0-1-2-3-\dots).$$

(3) $\rightarrow 0 = \partial_t R_0 + \Theta R_0. \Rightarrow R_0 = \exp[-\int_0^t du \Theta(u)]$.

$$\rightarrow \partial_t R_{n+1} + \Theta R_{n+1} = \Theta R_n. \Rightarrow R_n(t) = \int_0^t du \Theta(u) \exp[-\int_0^{t-u} ds \Theta(s)]. \quad \langle n=1,2,3,\dots \rangle$$

(4) $R_0(t)$ is monotonous decreasing function from 1 at $t=0$.

(5) $\partial_t R_{n+1} = \Theta (R_n - R_{n+1})$: $\langle \text{note that } \Theta > 0 \rangle$.

R_{n+1} is to increase from zero and to have single maximum point at $R_n(\setminus) = R_{n+1}(\setminus)$,

then to become monotonously decreasing function toward zero due to $(R_n - R_{n+1}) < 0$.

(6) $R_n(\infty) \rightarrow +0. \Rightarrow T\omega(\infty) = \omega(\infty). \Rightarrow \text{equilibrium state} = \text{general relaxation process.}$

∴ $0 = \sum_k (T_{jk} - \delta_{jk}) \omega_k \equiv \sum_k S^j_k \omega_k \rightarrow \text{vector} \langle \omega_k \rangle$ is perpendicular to vector $\langle S^j_k \rangle$ which are in an ultra plane $S. \sum_j S^j_k = \sum_j (T_{jk} - \delta_{jk}) = 0, S^j_j = (T_{jj} - 1) < 0, S^j_{k \neq j} = (T_{jk} - 1) > 0$. Thus $\langle S^j_k \rangle$ can be determined (in some degree?) from "equilibrium state vector $\langle \omega_k \rangle$ ". ← not executed.

[4] : The Features of QSM Master Equation in Opened System :

① State transition is caused also by in & out flow of matter or heat at the boundary of system, which is equivalent to being another singular hamiltonian $\equiv J_s(t)$ like as $H_s(t)$. Then we assume probabilistical exclusiveness as follows. $\Gamma_{jk}(t) = \Gamma^j_{jk}(t) + \Gamma^k_{jk}(t) = \Theta(t) T_{jk} + \Lambda(t) L_{jk}$.

$$\partial_t \omega_j(t) = [\Delta t(t) / \hbar] \sum_k [T_{jk} - \delta_{jk}] \omega_k + [\Lambda(t) / \hbar] \sum_k [L_{jk} - \delta_{jk}] \omega_k. \quad \dots \text{The opened system eqn.}$$

$$\Lambda(t) = \sqrt{\langle \sum_j \sum_k L_{jk}(t) \omega_k(t) (\epsilon_j - \langle \epsilon \rangle)^2 \rangle} : \text{Energy deviation caused by flowing transition } L_{jk}.$$

② Virtual stationary flow and heart beating solution: $\langle j_0 \equiv \Lambda(t) [L - 1] \omega(t) \rangle$.

(1) $\partial_t \omega = \Theta [T - 1] \omega + j_0; \omega \equiv \sum_{n=0}^{\infty} R_n(t) T^n \omega_0 + \sum_{m=0}^{\infty} F_m(t) T^m j_0$.

$$0 = (\partial_t R_0 + R_0 \Theta); 0 = \partial_t R_{n+1} - \Theta (R_n - R_{n+1}); 0 = (\partial_t F_0 + F_0 \Theta - 1); 0 = \partial_t F_m - \Theta (F_{m-1} - F_m).$$

(2) R_n behaves the same as one in isolated closed system. $\Rightarrow R_n(\infty) = 0$.

(3) $0 = (\partial_t F_0 + F_0 \Theta - 1). \Rightarrow * F_0(t) = \exp[-\int_0^t ds \Theta(s)] \int_0^t du \exp[\int_0^u ds \Theta(s)] \geq 0$.

$$0 = \partial_t F_m - \Theta (F_{m-1} - F_m) \Rightarrow * F_m(t) = \int_0^t du \Theta(u) F_{m-1}(u) \exp[-\int_0^{t-u} ds \Theta(s)] \geq 0.$$

(4) $\partial_t F_m(\infty) = 0. \rightarrow \{F_m(\infty) = 1 / \Theta(\infty) = \Delta t(\infty); (2)\} \Rightarrow 0 = \partial_t \omega(\infty) = \Theta(\infty) [T - 1] \omega(\infty) + j_0$.

(5) $\omega(\infty) = T\omega(\infty) + \Delta t(\infty) j_0$. $\langle \text{solution of heart beating with stationary flow} \rangle$.

$$\omega(\infty) = \Delta t(\infty) [1 - T]^{-1} j_0. \Rightarrow \langle \text{equilibrium state determined by the flow } j_0 \text{ and the } T \rangle.$$

[1] : Gravity is Pure Gauge Field by "Localized Lorentz Transform as Principle of Equivalence".

- Infinitesimal Localized Lorentz Transform Invariance of Physics- (E: dimension is (N≥3;1))
 Gravity field is equivalent to accelated system(Principle of Equivalence≡PE) by Einstein(1905).
 Then accelated system is equivalent to distributed localized inertia ones where localized Lorentz transform(L²T) is established¹⁾ (R.Utiyama 1956). After all, such L²T is proved to be also "complete localized gauge transform(=LGT)" in (N+1) of "linear time & space coordinates". Thus the quantization becomes possible in the same way of general gauge field by Faddeev-Popov(1967). Then the derived QGD is entirely the same as traditional standard theory of "point model of elementary particles".

E: Notation $x_\mu \equiv (x_0 \equiv ict, x_1, x_2, \dots, x_N)$ enables indispenable "anti-hermite field" $A^{\alpha\beta} = \partial_\mu \epsilon^{\alpha\beta}$ in QGD.

$A^*_\mu \equiv (A^*_0 \equiv i\phi^*/c, A^*_1, A^*_2, \dots, A^*_N)$, $\gamma^\mu \gamma^\nu + \gamma^\nu \gamma^\mu = \delta^{\mu\nu}$, where c is velocity of light in vacuume.
 Discrimination of up and down suffix is no longer negligible in "Linear coordinates".

- (1)linear coordinate transform : $dx'_\mu \equiv \partial_{\mu\nu}(x) dx_\nu = [\delta_{\mu\nu} + \epsilon_{\mu\nu}(x)] dx_\nu$. $dx'_\mu dx'_\nu \equiv dx_\mu dx_\nu \rightarrow \epsilon_{\mu\nu}(x) = -\epsilon_{\nu\mu}(x)$.
 $\partial_{x'_\mu} = \partial_\nu (\partial x_\nu / \partial x'_\mu) = a^{-1}{}_{\nu\mu}(x) \cdot \partial_\nu$.
- (2)spinor transform : $\psi'_\alpha(x') \equiv T_{\alpha\beta}(x) \psi_\beta(x) = [\delta_{\alpha\beta} + \frac{1}{2} \epsilon_{\mu\nu}(x) Q^{\mu\nu}{}_{\alpha\beta}] \psi_\beta(x)$.
- *pararell shift : $\psi_\alpha(x+\Delta x) \equiv \psi_\alpha(x) + \frac{1}{2} \epsilon_{\mu\nu}(x) Q^{\mu\nu}{}_{\alpha\beta} \psi_\beta(x) \equiv \psi_\alpha(x) + \frac{1}{2} \Delta x_\lambda A^{\mu\nu}{}_\lambda(x) Q^{\mu\nu}{}_{\alpha\beta} \psi_\beta(x)$.
- *gauge field : $\partial_\lambda \epsilon_{\mu\nu}(x) = A^{\mu\nu}{}_\lambda(x)$.
- *invariant differential : $D_\lambda \psi_\alpha(x) \equiv \lim_{\Delta x_\lambda \rightarrow 0} \Delta x_\lambda^{-1} [\psi_\alpha(x+\Delta x) - \psi_\alpha(x)] = \partial_\lambda \psi_\alpha - \frac{1}{2} A^{\mu\nu}{}_\lambda Q^{\mu\nu}{}_{\alpha\beta} \psi_\beta$.
- (3)Lagrangian invariance : $L(x) = -c\psi [h \gamma^\mu D_\mu + mc] \psi \equiv L'(x')$.

↓

T's form. : $\rightarrow T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} T = \gamma^\nu \Leftrightarrow T = [1 + \frac{1}{4} \epsilon_{\alpha\beta} \gamma^\alpha \gamma^\beta]$, $Q^{\alpha\beta} = \frac{1}{2} \gamma^\alpha \gamma^\beta$.
 : $[Q_{\rho\sigma}, Q_{\tau\nu}] = f_{\rho\sigma\tau\nu} Q_{\alpha\beta}$ (SO(N;1) gauge symmetry)

Tranfrom for $A^{\alpha\beta}_\mu$. : $\frac{1}{2} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} = \frac{1}{2} T \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} T^{-1} - T \gamma^\nu \partial_\nu T^{-1}$.

(4)Gravitational Field as Complete Gauge One :

A^*_μ 's transform : $\rightarrow \delta A^{\alpha\beta}_\mu = \partial_\mu \epsilon^{\alpha\beta} + \frac{1}{4} f_{\rho\sigma\tau\nu} \epsilon^{\rho\sigma} A^{\tau\nu}_\mu \equiv D_\mu \epsilon^{\alpha\beta}$. (complete gauge transform feature)

Proof of (3) :

$$\begin{aligned} L'(x') &\equiv -c\psi [h \gamma^\mu (\partial'_\mu - \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta}) + mc] \psi = -c\psi T^{-1} [h \gamma^\mu a^{-1}{}_{\nu\mu} \partial_\nu - h \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} + mc] T \psi \\ &= -c\psi [h T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} \partial_\nu - h T^{-1} \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} + mc T^{-1}] T \psi \\ &= -c\psi [(h T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} T) \partial_\nu \psi - h T^{-1} \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} T \psi + mc T^{-1} T \psi] + ch \psi (h T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} \partial_\nu T) \psi \\ &= -c\psi [h T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} T \partial_\nu \psi - h \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} \psi + mc \psi] \\ &\quad + ch \psi T^{-1} \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} T \psi - ch \psi (T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} \partial_\nu T) \psi - ch \psi \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} \psi \\ &= -c\psi [h \gamma^\nu (\gamma^\mu T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} T) \partial_\nu \psi - \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta} \psi] + mc \psi \\ &\quad + ch \psi [\frac{1}{2} T^{-1} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} T - (T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} (T T^{-1}) \partial_\nu T) - \gamma^\mu \frac{1}{2} A^{\alpha\beta}_\mu Q_{\alpha\beta}] \psi \end{aligned}$$

* $T^{-1} \gamma^\mu a^{-1}{}_{\nu\mu} T \equiv \gamma^\nu$. * $\frac{1}{2} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} = \frac{1}{2} T \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} T^{-1} + T (\gamma^\nu T^{-1} \partial_\nu T) T^{-1}$.
* $\frac{1}{2} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} = \frac{1}{2} T \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} T^{-1} - T \gamma^\nu \partial_\nu T^{-1}$.

Proof of (4) : (E: Note that sing of $\epsilon_{\rho\sigma}$ is taken to be negative).

$$\begin{aligned} T &\equiv (1 - \frac{1}{2} \epsilon_{\rho\sigma} Q^{\rho\sigma}) ; T^{-1} \equiv (1 + \frac{1}{2} \epsilon_{\rho\sigma} Q^{\rho\sigma}) ; \delta A^{\alpha\beta}_\mu \equiv A^{\alpha\beta}_\mu - A^{\alpha\beta}_\mu \\ \frac{1}{2} \gamma^\mu \delta A^{\alpha\beta}_\mu Q_{\alpha\beta} &= \frac{1}{2} (T \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} T^{-1} - T \gamma^\mu \partial_\mu T^{-1}) - \frac{1}{2} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} \\ &= \frac{1}{2} (1 - \frac{1}{2} \epsilon_{\rho\sigma} Q^{\rho\sigma}) \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} (1 + \frac{1}{2} \epsilon_{\tau\nu} Q_{\tau\nu}) - (1 - \frac{1}{2} \epsilon_{\rho\sigma} Q^{\rho\sigma}) \gamma^\mu \partial_\mu (1 + \frac{1}{2} \epsilon_{\tau\nu} Q_{\tau\nu}) - \frac{1}{2} \gamma^\mu A^{\alpha\beta}_\mu Q_{\alpha\beta} \\ &= -\frac{1}{4} \epsilon_{\rho\sigma} A^{\alpha\beta}_\mu Q_{\rho\sigma} \gamma^\mu Q_{\alpha\beta} + \frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu \gamma^\mu Q_{\alpha\beta} Q_{\tau\nu} - \frac{1}{2} \partial_\mu \epsilon_{\tau\nu} \gamma^\mu Q_{\tau\nu} + \frac{1}{4} \partial_\mu \epsilon_{\tau\nu} \epsilon_{\rho\sigma} Q_{\rho\sigma} \gamma^\mu Q_{\tau\nu} \\ &= -\frac{1}{4} \epsilon_{\rho\sigma} A^{\alpha\beta}_\mu Q_{\rho\sigma} \gamma^\mu Q_{\alpha\beta} + \frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu \gamma^\mu Q_{\alpha\beta} Q_{\tau\nu} - \frac{1}{2} \partial_\mu \epsilon_{\tau\nu} \gamma^\mu Q_{\tau\nu} + \frac{1}{4} \epsilon_{\rho\sigma} A^{\tau\nu}_\mu Q_{\rho\sigma} \gamma^\mu Q_{\tau\nu} \\ &= +\frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu \gamma^\mu Q_{\alpha\beta} Q_{\tau\nu} - \frac{1}{2} \partial_\mu \epsilon_{\tau\nu} \gamma^\mu Q_{\tau\nu} = +\frac{1}{4} \epsilon_{\tau\nu} (\partial_\mu \epsilon_{\alpha\beta}) \gamma^\mu Q_{\alpha\beta} Q_{\tau\nu} - \frac{1}{2} \partial_\mu \epsilon_{\tau\nu} \gamma^\mu Q_{\tau\nu} \\ &= -\frac{1}{4} \times \frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu \gamma^\mu [Q_{\tau\nu} Q_{\alpha\beta} - Q_{\alpha\beta} Q_{\tau\nu}] - \frac{1}{2} \partial_\mu \epsilon_{\rho\sigma} \gamma^\mu Q_{\rho\sigma} \\ &= -\frac{1}{2} \times \frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu \gamma^\mu f_{\tau\nu\rho\sigma} Q_{\rho\sigma} - \frac{1}{2} \partial_\mu \epsilon_{\rho\sigma} \gamma^\mu Q_{\rho\sigma} = -\frac{1}{2} \gamma^\mu [\partial_\mu \epsilon_{\rho\sigma} + \frac{1}{4} \epsilon_{\tau\nu} A^{\alpha\beta}_\mu f_{\tau\nu\rho\sigma}] Q_{\rho\sigma} \end{aligned}$$

[2] : QGD Lagrangian as general gauge field one: (E: a≡αβ double suffix abription).

$$L_{QGD} = -c\psi [h \gamma^\mu D_\mu + mc] \psi - \frac{1}{4} \eta (\partial_\mu A^{\alpha\nu}_\nu - \partial_\nu A^{\alpha\mu}_\mu + g f_{\alpha\beta\gamma\delta} A^{\alpha\mu}_\mu A^{\beta\nu}_\nu)^2 + icB^* \partial_\mu A^{\alpha\mu}_\mu + \frac{1}{2} aB^* B^* + \chi C^* \cdot \partial_\mu D_\mu C^*.$$

[3] : Lie algebra sequence and QGD of SO(N;1) symmetry as the supreme unified field theory.

SO(N;1) ⊃ SO(N) ⊃ SO(10) ⊃ SU(5) ⊃ SU(3) × SU(2) × U(1). (E: empirically N=11).

- (1)Above sequence tells phase transitions of gauge field dynamics(≡PTQGD) as the creation processes of universe so as to satisfy 0=+E(matters)-E(gravity field) and so called evolution of matters.
- (2)PTQGD can be irrustrated by the method of stability criterion on Klein-Gordon Equation of gauge field with some assumptions for simplification for the analysis.

● THE COMPLETION OF SYMBOLIC LOGIC=THE SUPER COMPLETENESS THEOREM(1991) :

① Probabilistical Feature of Goedel's Incompleteness Theorem(1931).

In a non-contradictional theory K containing natural number one N, there is at least a proposition X of which truth or false never can be determined.

(1) X must be random phenomena :

Proof : K is non-contradictional, so X never can simuletaneously be both 1(truth) and 0(false).
So X must be either 1 or 0 at each when X is observed by observer O. Then we can establish sequece of observing X at each times as $\{O_j(X)=1, \text{ or } 0 | j=1, 2, 3, \dots, \infty\}$.
It is obvious that $\{O_j(X)\}$ is "random" sequece of {1 and 0}.

(2) There must be definite probability $1 > p_1 > 0$ for $O_j=1$ in limit $j \rightarrow \infty$ ensemble of $\{O_j(X)\}$.
(=Pan Statisticalization Theorem).

In N time trial of observing X, we observe $C_1(N; X=1)$ times and $C_0(N; X=0)$ times respectively. Then the realizing rate of "1" shall converges certain probability in arbitrary M times last contineous trials after taking sufficient large N^* time trials.

Now we proof following inequality.

$$\{\forall \epsilon > 0; \forall M > 0; \exists N^*, M + N^* \geq \forall N \geq N^*, 1 \geq \exists p_1 \geq 0, 1 \geq \exists p_0 \geq 0; p_1 + p_0 = 1\} \Rightarrow |C_1/N - p_1| = |C_0/N - p_0| < \epsilon.$$

Proof : Let's define following relations respectively.

$$p_1 \equiv C_1(N^*)/N^*, p_0 \equiv C_0(N^*)/N^*, N^* < N \equiv N^* + [N < N^* + M, C_1(N^*) + [N \geq C_1(N) \geq C_1(N^*), 1 \geq C_1(N)/N \geq 0.$$

$$C_1(N^*)/(N^* + [N) + [N/(N^* + [N) \geq C_1(N)/N \geq C_1(N^*)/(N^* + [N).$$

$$p_1 / (1 + ([N/N^*]) + ([N/N^*]) / (1 + ([N/N^*]) \geq C_1(N)/N \geq p_1 / (1 + ([N/N^*]).$$

$$p_1 + [N/N^* \geq (1 + [N/N^*) C_1(N)/N \geq p_1. \rightarrow [N/N^* \geq (1 + [N/N^*) C_1(N)/N - p_1 \geq 0.$$

$$[N/N^* \geq [N/N^* - ([N/N^*) C_1(N)/N \geq (C_1(N)/N - p_1) \geq -([N/N^*) C_1(N)/N \geq -[N/N^*.$$

$$|C_1(N)/N - p_1| \leq ([N/N^*) \leq M/N^* < \epsilon. \Leftrightarrow \{[\forall \epsilon > 0, \forall M > 0] \Rightarrow \exists N^* > M/\epsilon\}. \quad \langle \text{proof end} \rangle.$$

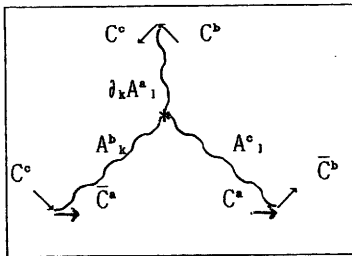
② Realization of Contradiction and the Breaking down of Causality Law(Theorem) :

(1) This fact is mentioned in many books of symbolic logic. So reader should refer them.

(2) Evidently observable matter phenomena never can be contradictional due to impossibility of simuletaneous realizing of story A and that of not A. On the contrary, in non-observable vacume field, anything can be possible! . This fact is serious relation for so called phenomena paranormal

③ Reaction of forming nucleon dipole by reactions of FP ghosts with gauge fields.

Not only elementary particles, but also their complex matters also can form dipole in general.



(1) General Gauge Field Hamiltonian and the Reaction Terms :

$$\begin{aligned} H_{GED} = & -ch\bar{\psi} \gamma^k \partial_k \psi + \{-\frac{1}{2}\eta(\partial_0 A^a_k - \partial_k A^a_0)^2 + \frac{1}{2}\eta(\partial_k A^a_1 - \partial_1 A^a_k)^2\} \\ & + \{-icB^a \partial_k A^a_k - icA^a_0 \partial_0 B^a - \frac{1}{2}aB^a B^a + \chi \partial_k \bar{C}^a \cdot \partial_k C^a\} \\ & + gch\bar{\psi} \gamma^k A^a_k Q_a \psi \\ & + (g/\eta) \{-f_b^a \cdot A^b_0 A^a_k (\partial_0 A^a_k - \partial_k A^a_0) + f_b^a \cdot A^b_k A^a_1 (\partial_k A^a_1 - \partial_1 A^a_k) \\ & \quad + f_b^a \cdot A^b_0 A^a_k \partial_0 A^a_k\} \\ & + (g^2/2\eta) \{- (f_b^a \cdot A^b_0 A^a_k)^2 + (f_b^a \cdot A^b_k A^a_1)^2\} \\ & + \chi g f_b^a \cdot A^b_k C^b \cdot \partial_k \bar{C}^c \\ & - \partial_k \{\Pi^a_k A^a_0 + g f_a^c \cdot A^a_0 A^b_0 A^c_k\}. \end{aligned}$$

(2) FP ghost has dimension of quark dipole.

(3) : $(g/\eta) f_b^a \cdot A^b_k A^a_1 (\partial_k A^a_1 - \partial_1 A^a_k)$ is 3rd order field selfreaction creating $\{\partial_k A^a_1, A^b_k, A^a_1\}$ from *.
 $\chi g f_b^a \cdot A^b_k C^b \cdot \partial_k \bar{C}^c$ is reaction of FP ghost with gauge field A^b_k . Then they can form nucleon dipole in the reactions triangle. Hence any complex matter M^+ is to have its anti-matter pair M^- forming general matter dipole. This fact is serious relation for so called phenomena paranormal.

-SUPPLEMENTS-

● The great role of "real number zero $\equiv 0^*$ ", or mysterious being of "0".

Author use phrase "creation from nothing $\equiv 0^*$ ". The true mean of 0^* is not so simple !. Now we recognize that so called "0" in natural number is "something complete empty". Imagine so called natural number set $N \equiv \{0, 1, 2, 3, 4, \dots, N-1, N, N+1, \dots\}$. Then you will notice that the definiteness of the most large number of N , that is, so called infinity $\equiv \infty$. None can determine the most large number $\equiv M$ in the set N !. This is a realization of "incompleteness theorem" which predicts a being of indefiniteness in a non-contradictional (natural number) theory (1930 Goedel). Now let us imagine the series $Q \equiv \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots, \frac{1}{N-1}, \frac{1}{N}, \frac{1}{N+1}, \dots\}$. Then we can determine the most small number Z of the set Q as $Z=0^*$. Because if Z does not become zero, but is something definite positive $Z = \epsilon = 1/K > 0$, this is obviously contradict with $Z < 1/(K+1)$, where K is a natural number. Thus Z must be zero, and also $Z=1/M$.

Then we shall recognize $Z=1/M$, where M is the most large number in N . As was seen in the above, M is indefinite, so real number Z must be simultaneously indefinite.

Z must be definite as natural number 0, but is also indefinite $Z=1/M=0^*$. That is real number 0^* is not something complete, but is something indefinite. Thus real number zero 0^* must be something contradictional (breaking down of causality).

$0 = 0^* = 1/\infty$
 definite ↗ ↘ indefinite

「As is seen in the left, being definite and indefinite simultaneously co-exist !」.

The final conclusion is as follows. We never can say 0^* is complete empty, or complete nothing, because we never can say anything definite for indefinite being. Consequently a creation from nothing ($=0^*$) is to be possible by breaking down of causality.

☞ : In ancient India, people already had known logic of contradictionary for creation of universe. They considered the initial state of creation is nothing and also not nothing at the same time.

● True appearance of God.

It is the most common to consider God the first cause of creating universe. Then God is something all=being non-contradictional and also contradictional. Because for the creation, God must be non-contradictional and also contradictional simultaneously. That is, God must be something all, or nothing. The latter is due to non-observability of co-being of non-contradiction and contradiction.

● The destiny of this universe and humankind from view of statistical physics.

According to statistical physics on creation of universe, the initial state of creation of universe is entirely being statistical. That is, so called initial fluctuation of physical state of universe is to be determined with uniform probability by dice throwing. A uniform probability means nothing biased conditions for creation. For example to tell, if the energy fluctuation is positive, then universe must be annihilated to be nothing again instantaneously, if negative, then universe must create positive energy matters in order to cancelate initial negative energy so as their sum becomes zero. This is called "Big-Bang" in standard physics. That is, $0 = +E - E + E$ is that of matters and $-E$ becomes that of universal gravity. In anyway, a Big-Bang universe evolution process becomes so called "stochastic one" which is described by fundamental stochastic equation. Consequently we can derive serious conclusions for destiny of this universe and humankind.

① metempsychosistic:

This being of universe and humankind is a consequence of phenomena (=statistical sample) of statistical physics which originally describes physics for statistical ensemble (=a set of complete statistical samples). Consequently a creation of universe is not single time, on the contrary, they must be infinitive times. A statistic can not be valid without infinitive times trials (each realizations).

② The destiny of this universe and humankind is a sample process of stochastic one, of which realization probability is zero. A statistical sample is a something determined. That is, our destiny has already been determined as a statistical sample. Consequently so called (various methods of) fortune telling is not necessary non-reascable. The mean of zero probability is that of observability of stochastic process, which does not mean whole impossibility of observability fortunately, however the complete one is impossible like as weather forecasting.

☞ : A weather is a typical stochastic process described by stochastic equation. Therefore the zero probability of realizing weather means possibility of partial forecasting.

④ phenomena paranormal, psykick power, and being of spiritual.

① being of spiritual :

A vacume is not simple empty, but is a space filled with vacume polarizations like as $(q^+ \sim q^-)$ dipole of complex particle and the anti-particle A_s was mentioned in ③. Then movement mechanism of general matter M^* in such vacume is as follows steps.

- | | | | | | | | | |
|-----|-----------------------|----------------|----------------|----------------|----------------|-----------------------|---|--|
| (1) | $\langle M^* \rangle$ | * | * | * | * | * | : | initial state $\langle M^* \rangle$ at left side and $*$ = vacume. |
| (2) | M^* | $M^- \sim M^+$ | $M^- \sim M^+$ | $M^- \sim M^+$ | $M^- \sim M^+$ | $M^- \sim M^+$ | : | general matter's dipole creation. |
| (3) | $M^* \sim M^-$ | $M^* \sim M^-$ | $M^* \sim M^-$ | $M^* \sim M^-$ | $M^* \sim M^-$ | M^* | : | general matter's dipole anihilation. |
| (4) | * | * | * | * | * | $\langle M^* \rangle$ | : | final state $*$ = vacume and $\langle M^* \rangle$ at right side. |

Consequently a human H^* always has his anti-particle pair H^- in vacume at anyplace and anytime. They are also possible to have their mind. Thus a vacume world is filled with such dipole ghosts. This becomes the origin of being spiritual and phenomena extraordinary. A vacume is not empty, but becomes space of phenomena extraordinary.

② Everything is possible for spirituals in contradictional vacume.

Because a vacume world is contradictional ones. In such world, a spirituals becomes magician with psykick power. They can know even future and pasts.

③ man and spiritual's communication by B wave = realization of psykick powers.

A man H in this life world can realize psykick-powers if he can communicate with a spiritual S in the world of the dead. Actually it seems to be possible by so called B wave with high possibility (it is a strongly reasonable hypothesis now !). Longitudinal B wave is stimulated by static electricity of electrical charges ("A" wave is ordinary transversal electromagnetic one stimulated by electrical currents). Consequently cell's ionized active charges in brain can radiate and receive B wave. However there is a realizing conditions for the communication. $H=S$ (a man who recover his life from temporal death) or $H=S$ (twins, they frequently realize telepathy !). This is so called "resonance conditions".

④ The serious pragmatism problems of fortunetelling.

An ordinary scientists never tell on such kind of phenomena paranormal, because it is a taboo. Why author take such risks is that it had been found to be serious pragmatism in this society. For example in power politics, utilizing of fortunetellings seem to be not unusual. In ancient Egypt, ancient Israel, and secrets society of modern age for nobility the autocrats, they utilize them. Or the modern world is said to be dominated by powers with such fortunetellers. And also this facts does not cause this world happy. That is, the utilizing seems for aims of egocentrism. So author determined his mind to expose this facts in order to exchange the utilizing to opened democratic plans.

-The list of main theses non-allowed its publishing-

Ⓕ : submitted, but not published ≡ sbnp

- 1)S0142-5 : Deriving Macro Quantum Statistical Evolution Equation of Irreversible Process by Method of Statisticalization of Quantum Pathes and of the Spot Time Distribution of Singular Hamiltonian Realization on Time Axis, sbnp to Phys.Soc. Jpn, 1988/6/14.
- 2)Deriving Macroscopic Quantum Statistical Evolution Equation of General Irreversible Process by Method of Statisticalization of Quantum Transition Pathes and of the Spot Time Distribution of Singular Hamiltonian's Realization on Time Axis and about on the Solution. rejected by Chem.Soc. Jpn, mailed on 1988/6/23.
- 3)S0182-5 : Quantum Statistical Process as Markovian One with Heisenberg's Time and Energy Uncertainty Principle and the General Relaxation Process in Closed System, sbnp to Phys.Soc. Jpn, 1989/5/22.
- 4)S0173-4 : On the Necessary and Enough Condition for Being a Statistical Phenomena, sbnp to Phys.Soc. Jpn, 1989/3/17 ; sbnp to Phys.Soc. Jpn, 1991/1/5.
- 5)2342-20 : On the Conception of Statistical Hybrid Time Series Hamiltonian and the Quantum Statisticalization of Time(Fluctuation Evolution Principle and the Fundamental Quantum Statistical Evolution Equation), sbnp to Phys.Soc. Jpn, 1990/9/6.
- 6)Infinitesimal Commutation Relation of B field Operator in Quantum Coulomb Process and the Free Electron's Instantaneous Space Transportation through the Dipole Tunnel. rejected by Prog.Theo.Phys(1990/11/9), mailed on 1990/9/27.
- 7)3001-21 : The Realization of Unique and Only Simultaneous Eigen State of the Maximum Observables of Hermitian Hamiltonian System, sbnp to Phys.Soc. Jpn, 1991/1/5 ; sbnp to Physica A, 1991/11 /25.
- 8)3002-10 : The Unique Being of the Total Wire Puller of Quantum Mechanics : Canonical Conjugate Principle, sbnp to Phys.Soc. Jpn, 1991/1/5.
- 9)10141-23 : General Analysis on Room Temperature Nuclear Fusion from the View of Statistical Hybrid Hamiltonian Theory, sbnp to Chem.Soc. Jpn, 1991/3/13.
- 10)3444-42 : The Invisible, but Great Role of Nonlocalized B field as a Dipole One(The Deterministic Property in the Chaotic Vacuum Field, a Free Electron's Instantaneous Space Transportation and the Form Organization in the Configuration Space through the Dipole chain), sbnp to Phys.Soc. Jpn, 1991/10/25.
- 11)An Incomplete Proposition which was Predicted by Goedel's Incompleteness Theorem belongs to the Statistical Phenomena, sbnp to Physica A, 1991/10/30.
- 12)The Canonical Quantization as the Autocrat of the Quantum Principle, sbnp to Physica A, 1991/11/22.
- 13)The Realization of Unique Simultaneous Eigen state of the Maximum Observables in a Hermitian Hamiltonian System, sbnp to Physica A, 1991/11 /22.
- 14)On the Concept of Statistical Hybrid Time Series Hamiltonian and the Quantum Statisticalization of Time(Fluctuation Evolution Principle and the Fundamental Quantum Evolution Equation), sbnp to Physica A, 1991/11 /22.
- 15)Quantum Master Equation and the Solution as the Expression of the 2nd Law of the Thermodynamics, sbnp to Physica A, 1991/11 /29.
- 16)U2303 : Reconsideration on the Proof of the Completeness Theorem due to the Discovery of Incompleteness's Being Randomness, sbnp to JMP, 1992/1/7.
- 17)Can be Chaos New Concept? .mailed to Physica A, 1992/2 /18.
- 18)On the Being of Uncertainty in the Real Number Theory, sbnp to Math.Soc. Jpn, 1992/4/15.
- 19)4302 : Quantum Statisticalization of Time(On the Evolution Principle by Energy Fluctuation and Quantum Statistical Master Equation, sbnp to Phys.Soc. Jpn, 1991/10/25.
- 20)4303 : Unique Eigen State Realization under a Hermitian Hamiltonian, Stochastic Schroedinger Equation Establishment and Markovianization of Quantum Process, sbnp to Phys.Soc. Jpn, 1992/7/6.
- 21)U2312 : Quantum Liouville Equation and Heisenberg One are not Evolutional, sbnp to JMP, 1992/7/7.
- 22)3423 : Renormalizable Gravity Field as Gauge One in Liener Coordinate, sbnp to Prog.Theo.Phys, 1993/4 /15.
- 23)DJ6420 : Quantum Gravitational Dynamics of $SO(N \geq 11; 1)$ Gauge Symmetry as the Unified Field Theory in Linear Coordinate, sbnp to Phys.Rev.Lette.D, 1997/9/19

Ⓕ : Certainly they were observable to find some mistakes in English and in physics, however, the main rejection reason of publishing are not such kind.

As was described in P7, author's all of theories have not been allowed to publish for the world in English. Is there a physical theory which is hazardous to disclose to the world?.

① About on religion and ideology :

It is said that Dr Hawking happened to meet Pope in the Vatican, then he was told not to research the moment when universe was created. Author just had tried to research the moment and derived entirely reasonable and logical results, kernel of which is so called "the nothing low principle". Though as it is called nothing, none can conclude such definite answer for non-being of God. The reality of nothing low is simultaneous realization of non-contradictioness and contradictioness which is supremely reasonable fasion for invisible God who must be allmighty with free of causality. The nothing low is so such allmighty to create universe from nothing, which also created life. On the other hand, Buddhism never tell on God. This is also reasonable, because God is non observable. Buddhism is so pragmatical to resolve people's agonies by various logic that invisible being is not necessary. However Buddhism perceives being of spirits in the world after death and also made serious efforts to resolve their agonies. As author tell that God exists in the former paragraph and God does not in the latter one, then they will say author is contradictory. It is so true. Because the nothing low itself is just out of causalitical lows or supreme chaos. Therefore it can be certainly right to be contradictory for contradictioness. This is theorem that once a contradiction had been realized, anything can be true. After all, physics tells nothing new for religion except the being of "spirits". Is this hazardous for people in the world?. By the way, Pope was said to allow Dr Hawking research univers after the moment. Consequently there is nothing physics not allowed to research.

② The completion of elementary particle theory by establishing the QCD.

Yes, it is certainly hazardous for researchers of elementary particle, because they shall lose their status as researcher by the completion of QCD. However such egocentric researchers are more hazardous for huge taxpayers, because they want to do reseach of no use at all with high costs.

③ The irreversibility of this capitalism world and the Quantum Stochastic Mechanics.

QSM is the first work of author and have been neglected for the authority, and public in general. Does QSM have any serious ideological aspects?. The answer of author may be at least one which is so called "irreversibility in isolated closed system". This is also called "thermal death of this world". In 1990, the world at that time was not serious for so called the problem of hot earth(HE). However in 2005 of today, the HE becomes so seriously hazardous for peoples by such hurricane and typhoon and by agricultural resource crisis and etc. Therefore QSM shoud have debuted earlier to prevent hazard of irreversibility. QSM has also possibility of developping theory of general opened system with flow, and it shall connect with important life science.

④ Creation electrical power from nothing by scalar wave by Nicola Tesla.

According to his bibliography, his precious research was suppressed and stopped by the authority of FBI and oil industry in USA at that time. If his research had been continued to now, today's such crisis mentioned in ③ might be prevented. In anyway creation energy from nothing is the final resolution of energy for humankind. So it must be disclosed soon as possible.

⑤ Economic Network Dynamics(ENL) as the most objective economics :

A genuine science is pure objective description without any author's private opinions for systematical truths. In this sense, former economics can be severely criticized. ENL is made from the policy of faithful mapping of accountbooks in concerned closed economical society. That is, it was an efforts to exclude any ideologies. Thus it is also so mathematical that even a physicists may can get satisfaction. However it is so young that there are many incompleted aspects in its details.

⑥ After all, the established physics may be unconsciously intended to deceive peoples in the world.

As is author's opinion, the Bible's most warning may be concept of mankind's original sin and being expesled from the paradise due to eat fruit of knowledge. The former means only mankind has singular feature of killing their fellows. Other animals fight but never kill their fellows. The latter means also the singular feature of obtaining of excess but incomplete technology which breaks the order of nature. In both aspects, fomer physics had dominant roles. However new but hidden physics mentioned in above may be not such kind of commercial incomplete physics, but is rather orienting to traditional ideology and religion. Such features might be caused from completeness of the physics. According to a legend, an incompleteness is said to be reflections of evil devils' thoughts.

⑦ Author's birth day is 1947.7.27 in which there are three "7 numbers". Usually 7 means the day of completion of making world by God in the Bible. He might be destined to intend something complete. On the other hand, he started his bussiness life in joint venture Yokogawa Hewlett-Packard Co in 1970. Then he happened to encounter a trouble between struggle of leftism and rightism in the Co. Since then he have been in state of inspections and suppressions by CIA. Thus he could not get any good work, status, money, family and even human-right. If he could not win for this struggle, he was to be an unconscious co-operator of evil CIA, which is acutally hazardous also for ordinaly USA peoples.