

The Essence of Recognition on This Universe may be Non-Contradiction.

God built this world with Non-Contradictory, while mankind destroy it with not it. Our secular world at now has been fatal chaos due to universal deceit the lie contradiction !!! 2022/10/29

① A True is an actual **Realization Observable**, while false are not <LOGIC>.

☞ : A "Contradiction" is false, demanding simultaneous realization of "A" and "not A".

In our observable physical world, event "A" is unique and only, but never with "not A"

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② A Mathematics is collective of anything proposition **non contradiction** <theorem>.

☞ : In math history, they entirely has been seeking *abstract math*, but almost their non contradiction theorem could have become realization, At last, physics and engineering are pragmatism applied mathematics.

☞ : Maybe many people are not good at math, however they trust it the most reliable.

But not be deceived by numeric !!

③ Modern Quantum Mechanics(QM, or AI) <the 3 fundamental concepts>

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① Most precise description without ambiguity overlapping on matter world.

It is described as each state = ϕ_k with observed physical value = a_k (eigen value of the state) by orthogonal vector (state = $\{\phi_k\}$) with Hermite operator = **A** (a physical variable observable = a gauge with scales = eigen value). $A \phi_k = a_k \phi_k$. $k=0, 1, 2, \dots, \infty$ eigen equation of observable

☞ : A pattern (state in general) is expressed in multi-dimension vector. **Our recognition** is measuring "*similarity distance (orthogonal or parallel)*" in vector space (Artificial Intelligence).

☞ : Maybe AI doctor or lawyer would drastically reduce our cost !!, AI politician with the holy scripture (ideology) may be our final demand ?!!

② QM origin is being of something observable change in time and space <Not Dead World >.

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For time and space coordinate (gauge) $\{t, x\}$ **observable**, something state must be changed with that of $\{t, x\}$, that is, also differential operator $\{d/dt, d/dx\}$ must be Hermite one observable.

$i \alpha (d/dt) \phi = \beta \phi$. $\Leftrightarrow \phi = \exp(\beta t / i \alpha)$ eigen equation of observable

Those $\{t, x\}$ and $\{d/dt, d/dx\}$ are called "*canonical conjugate variable*", which act to build QM. deriving Schrödinger equation, algorithm for elementary particle reaction process.

③ Physics must be invariant in any coordinate gauge.

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The origin of all the interaction force creating this universe and matter world at now.

(1) Non accelerate coordinate <special theory of relativity and quantum matter equation>.

(2) Accelerate coordinate <Principle of Equivalence and quantum gravity dynamics (QGD)>.

