

Interplay of Dimensional Sets

Pattern

Pattern is generated using the interplay of dimensional sets.
Because dimensions are sequence providers,
it is the geometric distribution, between the dimensions,
which determines the **pattern**.

Energy moves or translocates in wave **patterns**.
These wave **patterns** are often helical waves.
The helical **pattern** is three dimensional, at least.
Maxwell reported another dimension within helical waves.
The two dimensional cross section of the helical **pattern**
is a sine wave.

There are several modulations possible with a helical wave:

1. frequency, ν
2. amplitude, E
3. compressive frequency change, $<\Delta\nu$
4. expansive frequency change, $>\Delta\nu$
5. increasing amplitude, $>E$
6. diminishing amplitude, $<E$.

The helical wave can be viewed as a circular motion
moving perpendicular to the plane of the circular motion.
Components of **energy** are deployed in each portion of the motion.

What is being distributed? **Energy**.
Energy is distributed over the interplay of the dimensional sets.

Energy is deployed in increments, over dimensional sets,
as a continuous variant of oscillation
between the dimensional sets.

This increment of **energy** is based upon the capacity
of the **pattern** to distribute and to contain **energy**,
so as to cause a cyclical nexus of isopotentiality
in the matrix created.

Potentiality

and the Energy Increment Called a Charge

Maximum and minimum potentiality are characteristic
of the **pattern** transfer between the dimensional sets.

Interplay of Dimensional Sets

Because there is an interdependence
between **pattern** and **energy**,
it is possible to characterize **energy** and **pattern**
as a ratio, expressed in the **pattern** called a **charge**.
The **energy** of a **charge** is constantly being distributed
as an interaction, within the field of the dimensional sets,
which is its interdimensional motion.
By such means, it is possible to understand **quarks**
as **energy** distribution systems,
which combine, with complementarity.
The complementarity is geometric and temporal, or dynamic.
This becomes the key to understanding
the geometric, temporal or dynamic character
of the interplay ratio of the dimensional sets.

The formula and the ratios of the field,
as interdimensional motion,
parcels the potential **energy** of the charges,
the dissipation factor of **energy** flow into and out of the charges
and the kinetic **energy** of the charge motion and its linking field.
“There is no stasis, there is no entropy, there is only motion.”

As the charge moves, within or through the field
the **energy** deployment will shift,
between kinetic and potential **energy**.
The sum of the kinetic and potential energy is conserved.
Combined energy sums are in units called Hamiltonians.

That means that the ratio between the **pattern** characteristics
of the path of motion, in the field for kinetic **energy**
will have the geometric and scalar complementarity
with the **pattern** of the **charge**,
which is characteristic of potential **energy**.

Conservation of Energy

The conservation of **energy** is a conservation
between kinetic and potential **energy** (the Hamiltonian).
At any given increment of a dimension,
there is a characteristic ratio between the **energy**
of the **charge** state and the **energy** of its motion.

Interplay of Dimensional Sets

If we were to characterize **energy** as being majorly potential,
we have the features of substance, of atoms, of molecules,
of isotopes, and of closed domains of **energy** distribution.
If we were to characterize **energy** as being majorly kinetic,
we would have the manifestation of light and radiation.

In a certain sense, these two forms of **energy**:
potential and kinetic,
are constantly in interplay, at varying scales.

The semi-closed characteristic of substance or matter
(the hesitational nature of a charge)
may simply be in a dissipative balance, within its environment.

That means that the flow of **energy** into the system of **charges**
is balanced with **energy** out of the system of **charges**.

Decay occurs when more **energy** flows
from the system of **charges** than flows into the system of **charges**
in a dissipative pattern.

When system gain is generated
by means of a complementarity in the **energy** distribution
between potential **energy** of charge systems and substance
and the environmental field system, it is the evolution of **life**.
It may create a kind of layered intelligence forming energy.

Biochemistry, an Advanced Substance System

Herein, we can see the characteristic of physiology
with the advanced substance system
of biochemical and organic chemistry.

When and as that physiology has a dissipative relationship
with the environment, which is in balance,
it may be seen to be ecological.

The Evolutionary Vector

As being evolves,
the ratio of kinetic **energy** to potential **energy** increases.
The distribution of **energy**, in an interscalar flux, increases.

It is possible for there to be a coordinate coexistence
between one ratio of kinetic **energy** to potential **energy**
and a more evolved,
higher ratio of kinetic **energy** to potential **energy**.

Interplay of Dimensional Sets

This may be seen to be the mind-body relationship.
To take the tangency of current biochemistry
it is possible to see the key role of ATP (adenosine triphosphate)
as an energy currency with the modular property,
which allows implementation
of the anabolic and catabolic biochemical reactions.
Of course, this system is expedited
by means of the catalysis of protein enzymes.
So we can hereby see the ratio
between the matrix of organic chemistry,
the potentiation of the various **charge sets**
and the catalytic increments of the enzymes.
A more evolved ratio would increase
the flux of assimilation and elimination by transcending
the more familiar and common mechanisms
of intake and elimination.

Prediction

If and as we ever encounter more evolved species,
in a more evolved environment, it can be predicted
that this flux will be less intermittent and more continuous,
with higher levels of complementarity.