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From: SourceCodeOf_HumanGenome (Original Message)

Sent: 7/16/2008 11:01 PM

Here I present the abstract
for the 2005 autumn meeting
held by the physical society of Japan.
The original one was written in Japanese.

The word 'Nature at grammar level' was coined by me.
It can mean some feature of the real world, that is, Nature,
and it also can mean a certain research-plan or research-methodology of physics.
Such a plan or methodology is called grammatism.
This word was also coined by me.
Now I propose the study defined by these words
as a new research-area 'Nature at Grammar Level' in physics.
This proposal is so epoch-making that it is worth marking the world year of physics.
This new area should be located at the head of theoretical physics (that is, before particle physics),
or it should be located at the position
which is translated from theoretical physics
to the same direction and the same distance
as theoretical physics is from experimental physics.

With my proposal as a turning point,
fundamental physics should change to center grammatical physics from now.
What grammar level means is forms of theories.
Roughly speaking, it is what coordinate-system we chose.
It mainly is what domain of definition of the coordinate-system we chose.
A coordinate-system which I say is a mapping
which maps a mathematical notion
onto a history of the physical system to be argued.
It is different from a coordinate-system of the ordinary meaning.
A coordinate-system of the ordinary meaning works
as a part of a coordinate-system which I say.
Accurately speaking, grammatism is to make a form of a physical theory
as freely as possible
even not assuming that physical theory is a set of an equation (law) and a coordinate-system.
The transition from quantum mechanics to quantum field theory
and the proposition of string theory
is at grammar level,
but it is not fundamentally beyond the grammar of quantum theory,
and it is only a proposition of new models in the range of the grammar of quantum theory.
Why is grammar a feature of Nature?
For example, the core of quantum theory is to change grammar
from classical one to quantum one.

Most people say
that the law for micro world is different from one for macro world
which is drawn from ordinary experience,
but the grammars are different rather than the laws are different.
Nature has a feature that it is describable in quantum grammar
but is not describable in classical grammar.
Grammar is a feature of Nature in this meaning.
The present central problem of grammatical physics
is to invent a new grammar superior to the ordinary quantum grammar

and to invent a new grammar which replace the grammar of field theory,
not escaping to new models such as string theory.
Theoretical physicists have become free to think of new theories since Einstein.
However, they all were not beyond proposing new models
in the range of the quantum grammar.
With my proposal as a turning point,
physicists should also become free to propose new grammars in my name
on and after the world year of physics.

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