

INFLATIONARY BIG BANG

How to describe what 'not is',
the deep mystery of non-being,
of non-existence ... ?

Since, on starting, no-thing was,
no-thing existed,
of our material world,
or otherwise.
Not even space,
nor time.

For, just tell me,
what was "space"?
only tell me,
what was "time"?
when there was no-thing ...

Were they as a sort of foam
that had no form?
Might be ...

Not even this we understand of
such a pre-Planckian age.
And the answer
-plain and rude- is
we don't know!
Right now.
Not yet.

Only a tiny trice ahead
of this singular "event"
-how should I call it?
"pre-quantum"?
an "emerging superstring"?
or "cosmic loop"? -
which no-one can understand,
we may start to discuss,
up from this point,
in accordance with the Physics
that we trust:

From a full (endless?)
stillness,
vacuum state of Q space-time
-which in this subsequent instant
do was here! -
and had started fluctuating
virtually, ...

Until the mightiest blow one can imagine
pure potential energy,
of primary scalar field,
and all cost-free,
would inflate a tiny ball,
quasi-de-Sitter,
round and pretty as a pea.

Inflation rendered it perfect
that primordial grain of substance:
Isotropic, homogeneous,
and so big

as is now the Milky Way
where we are living.

We well know energy and matter
to be positive.
Its gravitational field,
quite on the contrary,
has potential negative,
which compensates it.

And in the General Theory,
Einstein's Relativity,
to our enormous surprise
we just get zero.

Zero, indeed, for all the energy
both at the start and the end:
total energy of the World.
Which towards the close of Big Bang
-as this process has been named-
emerged, as a dense plasma,
of quarks and gluons,
of matter.

And, thus, its way did begin
from the deep potential well
of primordial scalar field:
our awesome Universe
... had come to being!

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