

## Muse Nine

### The Big Bang.

Proponents of the Big Bang have always chosen to ignore the associated enigmas.

They - the scientific establishment - were sufficiently influential to cause Einstein to adapt his Theory of Relativity by the addition of a Cosmological Constant: since then, in order to satisfy an enigma, generated by their own more recent observations, they have decided that Einstein was correct in the first place and the Constant not only unnecessary but invalid.

These recent observations indicate the universe *is expanding at an increasing rate* rather than decelerating as they predicted. They have opined that this increasing rate must be due to the presence of **interstitial energy**, pervading the whole of space, pushing the Galaxies away from each other.

To arrive at such an opinion as if it were original thinking they must have lived their lives in a Scientific Cloister: the existence of **Tao** was postulated more than 3,000 years ago, followed by the Celts with their concept of **Nwyvre** which pervades the whole of Manred - now known as the structure of matter - the Hindus with their **Brahma**, and the proffering of Heractclus more than 2,000 years ago, makes their explanation no more than a restatement of the long established.

The concept of an original eternal, infinite reality in which our created reality is no more than a ripple embraces all of these beliefs. It is certainly more credible – to me – than the possibility of there having been nothing before the Big Bang.

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Notwithstanding the relevance of the ancient concepts such as Tao, Nwyvre, Brahma, Interstitial Energy - call it what you may - there was always an unused explanation within the bounds of Newtonian Physics.

Big Bang proponents have, from the beginning focussed on the precept that all matter originated at one point to expand, after the Big Bang, to form the Known Universe.

This presupposes that other than that Point of Origin, all space was, either, empty, or, non-existent: a seemingly unacceptable scenario.

This was never acceptable to the Taoists, Celts, and Hindus who always decried the possibility of nothingness. They believed all space is saturated with structure, from the outermost galaxy to the interior of the atom, expressible in mathematical terms - now termed Fractal Mathematics.

Note: Poem 32 of Tao Te Ching says,

*The Tao can't be perceived.*  
Smaller than an electron,  
It contains uncountable Galaxies.

Even allowing for the modern parlance, this translation remains thought provoking.

To return to the enigma if we are mindful of the above and consider the possibility that pre-Big Bang there were an infinite number of singularities (points of origin); post-Big Bang we would have had matter expanding away from all these points of origin and towards all adjacent points of origin.

Whether the original points were in the form of a regular three-dimensional matrix, or were irregular is irrelevant: if irregular they would have been spaced in proportion to the masses: all forces would have been in balance.

**Our Big Bang becomes a fractal part of a greater whole, of imperceivable structure and dimension.**

Initially expanding at a rate determined by the available released energy, it would lose momentum; when close enough to the expanding matter from adjacent points of origin there would be mutual gravitational attraction causing the matter to accelerate faster and faster, ultimately to become compressed at new centres of matter until the critical mass is achieved, to initiate one more step in an endless process.

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Located in an eternal, infinite reality, presumably with an infinite reserve of energy in forms known and unknown, the concept of an original Big Bang becomes more credible: the subsequent formation of points of compression may be considered to be different in that they involve physical matter; or, one has to accept the possibility that the physical matter would be dissipated into pure energy to top up the original reserves.

In the first there are strong elements of a strong cyclic process that repeats itself into perpetuity: In the second the process would seem to be more random in nature.

Either way the process may have been Theist initiated; or, be the result of chance Potentialism.

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