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Dear All,

Happy New Year! And I hope everyone is doing well.

Our last topic was on "Mind Set" using large numbers to open our minds and breaking through our small thinking boxes that is our egos.

Today I would like to introduce an expanding concept - "**Mind opening**"... the microscopic and macroscopic view of the universe. This is a multi-dimensional scale of increasing large numbers and decreasing small numbers. We will put some reality into these numerical dimensions.

We are about to embark on an astonishing journey of exploring the galaxies and the subatomic particles.

At the end of the journey, we can realize we are the continuum of realities and dimensions, until our egos start putting a divider/box at a particular dimension and define this as my entity, self (a separated self from others). **This divider is the thinking box**.

The microscopic and macroscopic scale is a speedy and effective way to transcend duality view. Continuum is nonduality.

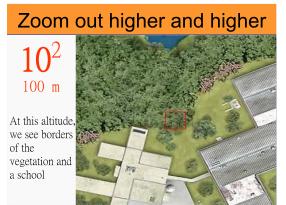
Let us start the journey at ground level dimension  $(10^0 = 1 \text{ meter})$  and we are going upward to macroscopic scale first. We shall increase our distance with speeds by the power of 10. From the power of zero,  $10^0 = 1 \text{ meter}$ ,  $10^1 = 10 \text{ meters}$ ,  $10^2 = 100 \text{ meters}$ ,  $10^3 = 1 \text{ kilometers}$  and so on until we reach cosmic macroscopic infinity.



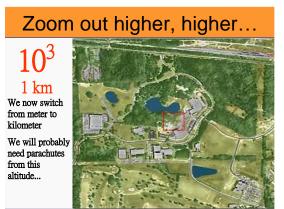
At this dimension of our daily life, a leaf has its usual appearance. The center of the square is where our eyes focus at point zero.

## Zoom out higher 10<sup>1</sup> 10 m At 10 meters high, we see a cluster of vegetation

As we go higher with increased dimensions, we begin to see more of that cluster of vegetation. The leaf in the last slide begins to lose its own identity. It is only part of a shrub.



With a slightly higher dimension at  $10^2$ , (100 m above ground), the landscape is easily visible and the leaf becomes part of the general landscape.



At  $10^3$  (1 kilometer up), the overview of the city begins to appear like the view from a plane after takeoff. The leaf in reference is already invisible in the general landscape.

We have changed the units of measurement to accommodate larger objects i.e. buildings and structures. Does that affect our feelings on dimension?



At this dimension, individual structures are no longer visible.



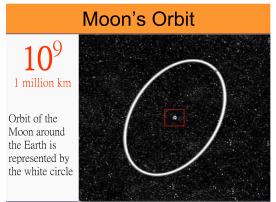
At this dimension, the whole state of Texas and California becomes visible.



At this dimension, we see our whole planet Earth.



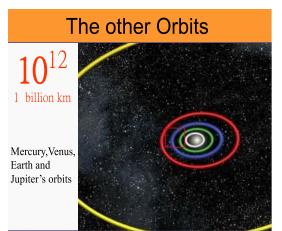
But at this dimension, our earth is so small against the background of a vast space.



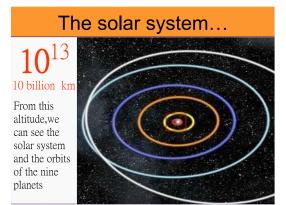
The center of the square is where we begin this journey into space. Our earth is hardly visible.



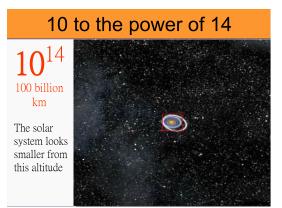
At this dimension, not only is our earth not visible but its orbit of rotation around the Sun becomes obvious



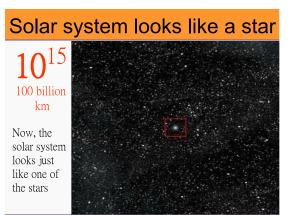
The orbits of other planets around our Sun are represented.



Our own solar system can be seen in space amongst the other planets.



Our solar system is now much smaller when compared to the immense outer space.



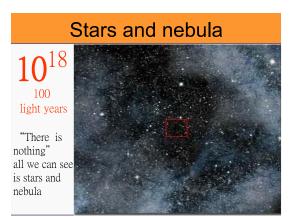
Our entire solar system is so very small that it looks just like a star when viewed from earth.



Our solar system is only a tiny speck in the universe. Instead of using large numbers, we change the units to reduce its vastness using familiar dimensions. Kilometer has been replaced by "light year". A time element has been introduced into our measurement of distance.



Do our feelings change with the changes in units? Has the object changed? This dimension, our solar system is hardly visible at all. However we know it exists.



We are nothing other than being part of the galaxy.



Our own Milky Way is in view. Where is our solar system in this vast space?



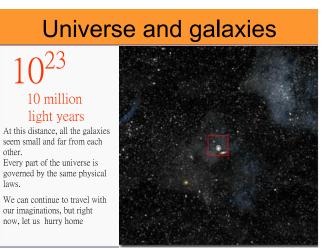
Here we are touring the Milky Way and seeing other galaxies.



In this view, even the entire Milky Way begins to appear.



Our entire galaxy is just an object amongst other galaxies in the universe.



Our galaxy is reduced to a tiny speck in the vast universe.

Have we reached infinite dimension yet? Where is infinity? Yes, we have reached the "observable" limit of our universe.

## Does *a* "limit" exist?

Does "infinity" really exist?

The limit or infinity exists because of the limited scope of our own imagination. The universe is a continuum extending well beyond our mental perception of boundary.

Where is our personal problem in this boundless universe?

Next time, we are back to the ground level of  $10^0$  and travel inward to atomic levels exploring the microscopic dimensions.