

Science Emerging from the Upanishads

Attempted By:

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Prayer:

*Mookam Karoti Vachalam, Hamsahamukhadi Likhati Paperam
Yat-kripa Tvam Vayam Vande, Paramanandam Vekateshwaram.*

Purpose of this presentation is:
To go a step further in our understanding of physics

According to current understanding of physics:

1. There are six massive particles called quarks, with their funny names like: Up-quark, Down-Quark, Charm, Beauty...etc;
2. There are light-weight-particles like electrons, and
3. Force-carrier particles like W^+ , Z^- , Photons etc.

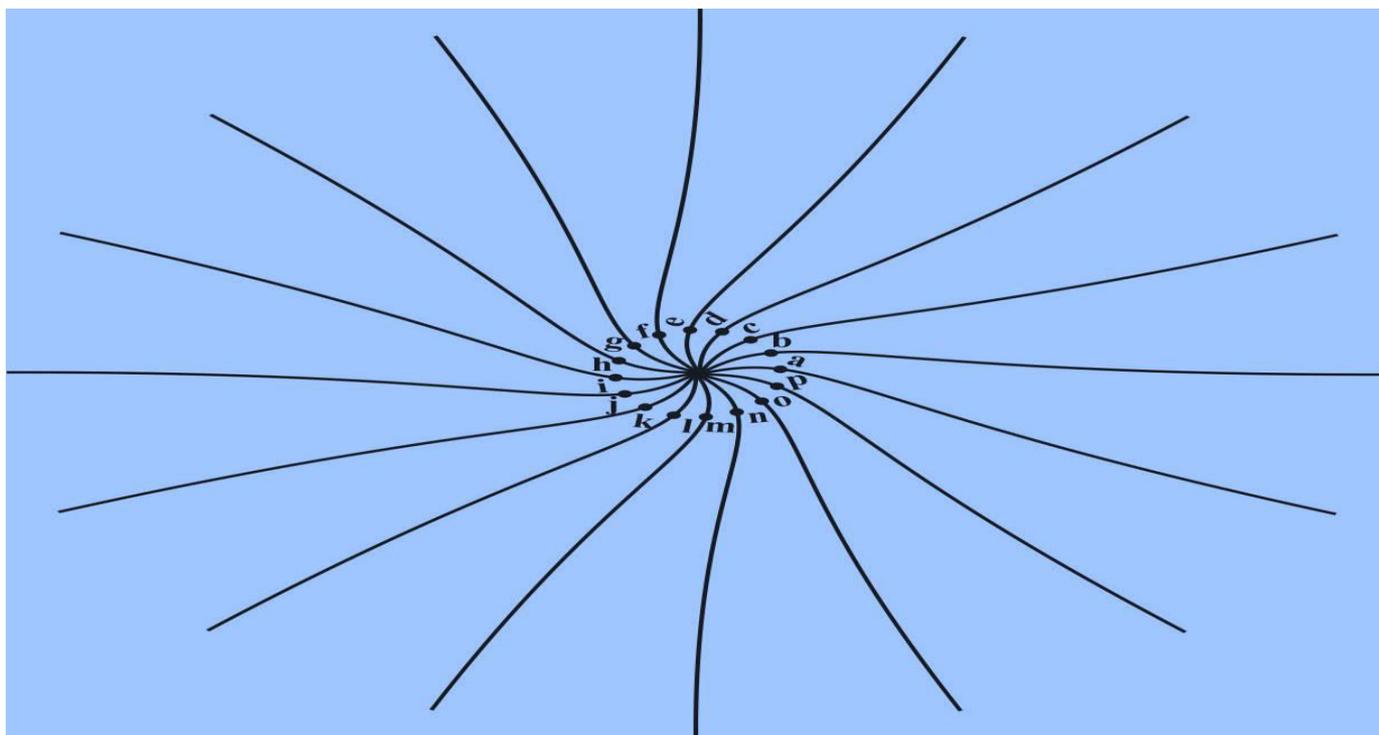
Physicists consider these particles as real entities

Whereas according to all the Upanishads the Ultimately Real Substance is All-pervading in Space, and Eternally Ever-Present in time. It is: Real, Aware of its own existence, and Free & Happy; termed as: ‘Sat-Chit-Aananda’

If this Ultimately-Real-Substance (U.R.S.) were always stationary, like a big slab of glass, then we have to call it ‘Inert’ , i.e. Jada

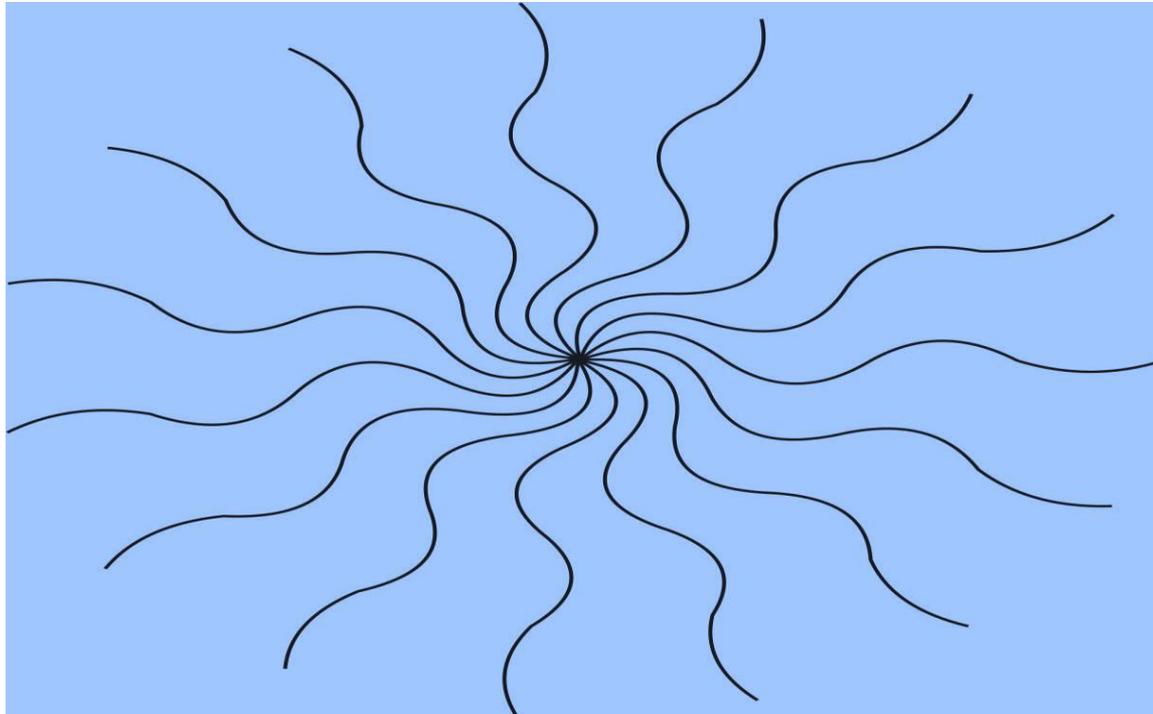
But this URS is dynamic and lively, i.e. Chetan

Motion of the all-pervading continuum has to be of a peculiar kind:
When a labeled point 'D' in the URS moves from 'D' to 'C', the points behind 'D' will pull the points behind it; and will push the points ahead of it ; and this sequence of pull and push should complete a close-loop-path, as shown in fig.1.

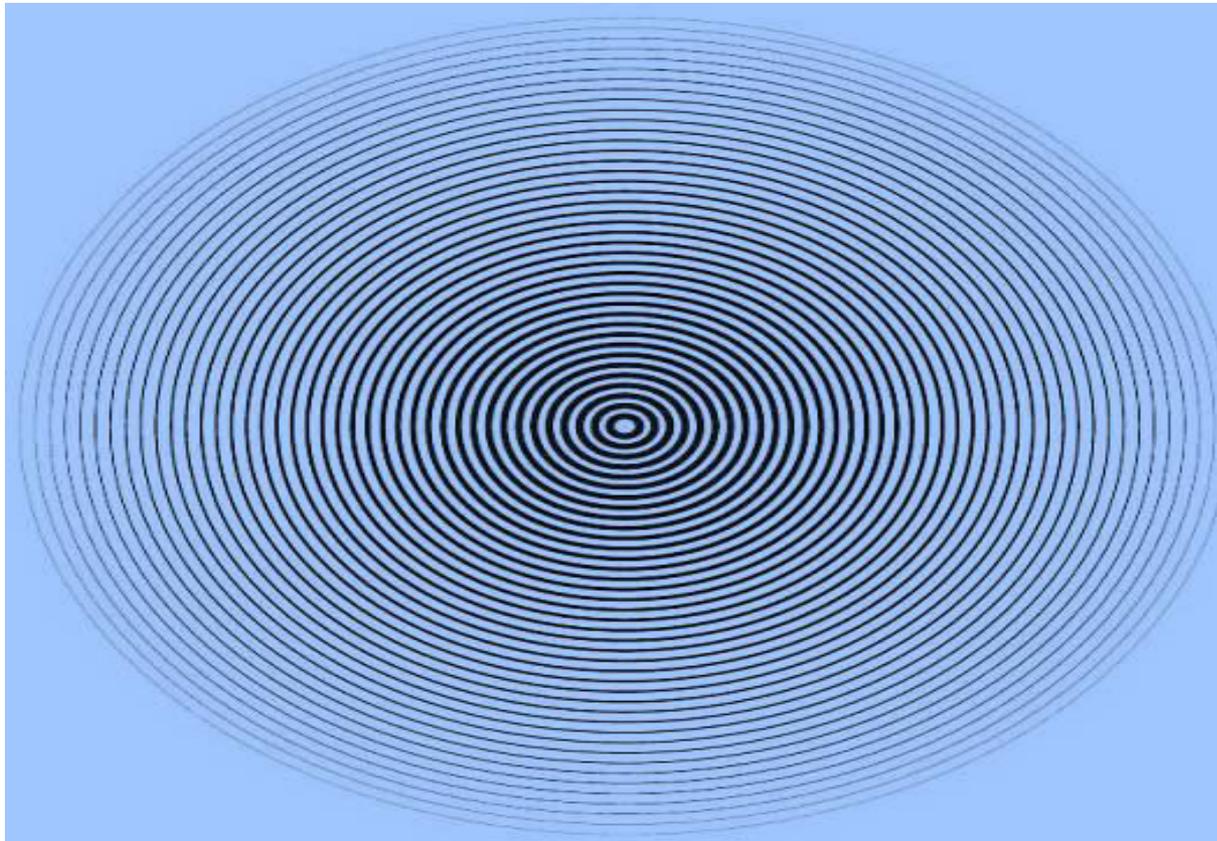


Such displacement of points can not continue for ever in the same direction, so they stop and reverse their direction. That is why the Isha-Aavasya-Upanishad uses the words: Tad Ejati, Tad Na Ejati...i.e.

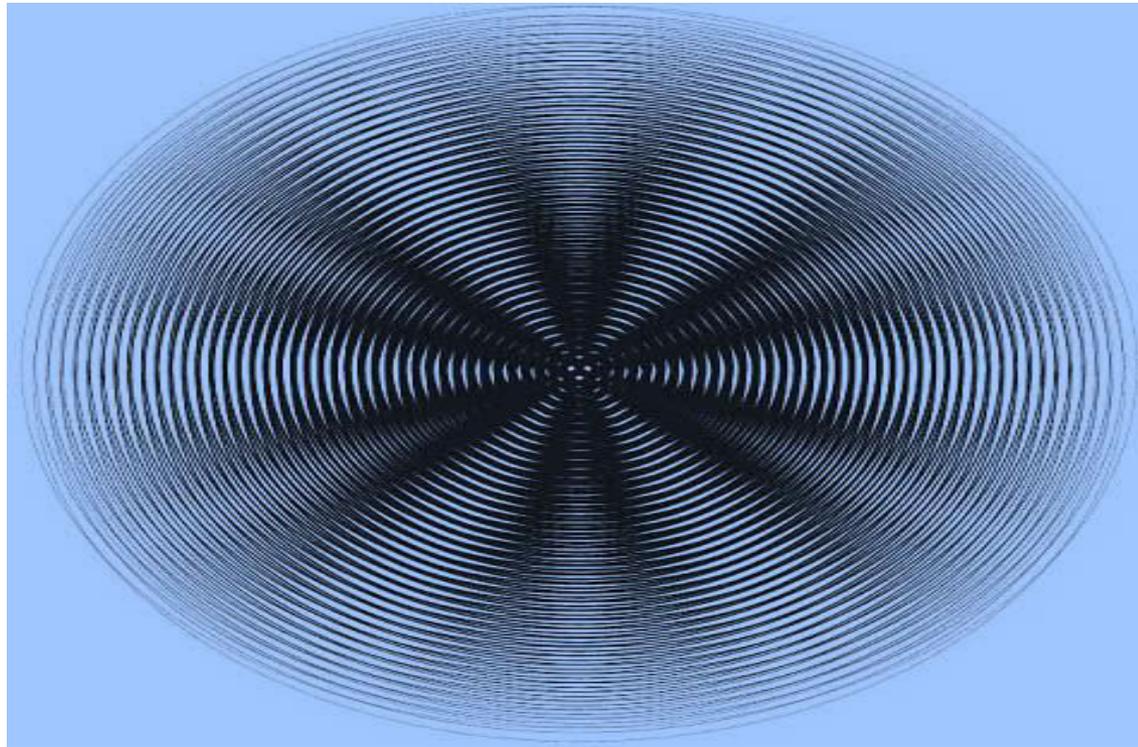
**It vibrates somewhere and It does not vibrate somewhere else.....
These vibrations give rise to a spherical standing wave like:**



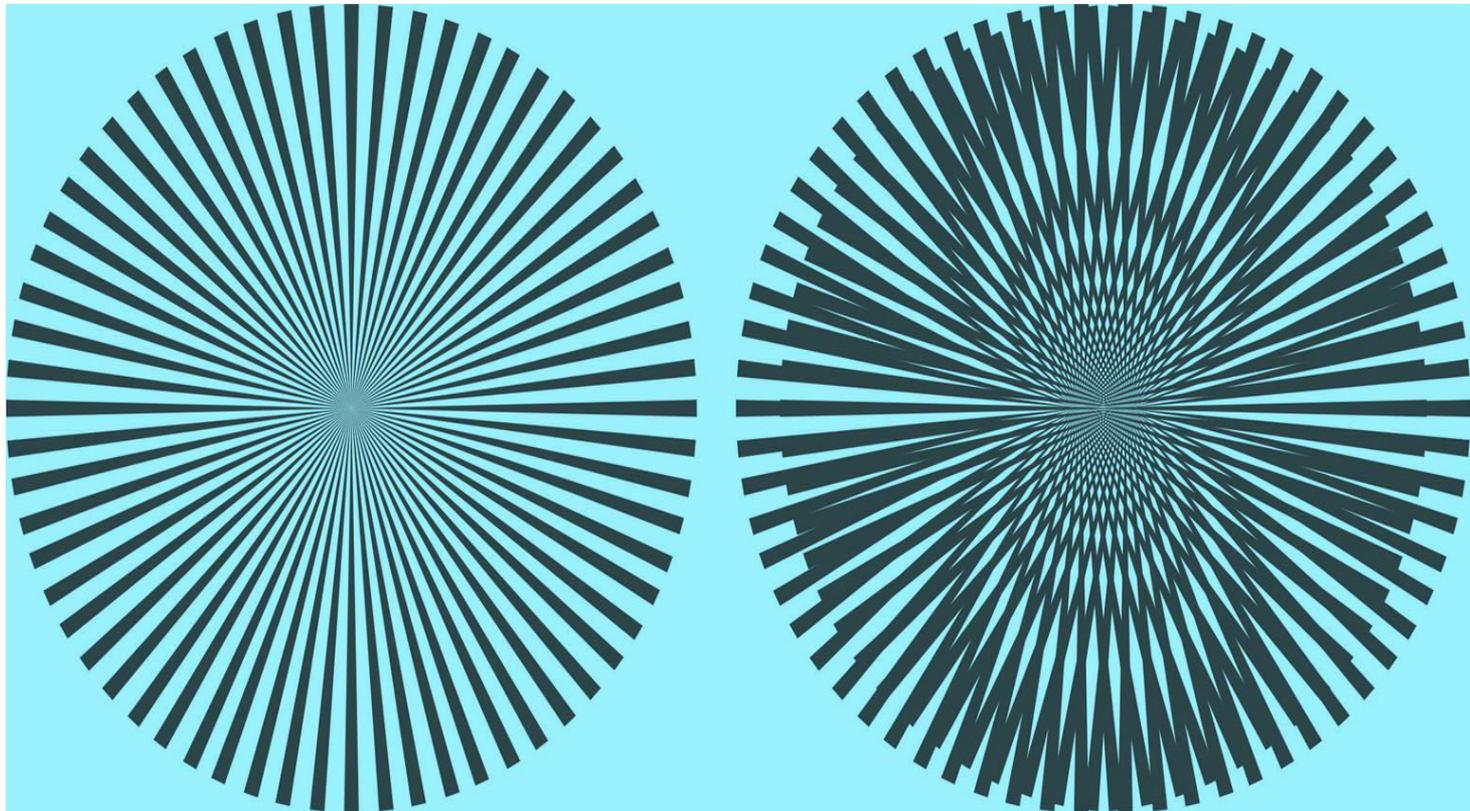
If we concentrate on just the peak-values of the standing wave, then we get concentric circles as follows:



When three such patterns of concentric circles come very close to each other, then their interference maxima emerge as radial lines as follows:



If we focus only on these radial lines and see what happens when two sets of radial lines come close to each other, then we find that a pattern similar to magnetic lines of force around a bar magnet emerges automatically.



We started with an all-pervading continuum (URS) and arrived at physically observable pattern of magnetic lines of force around a bar magnet; which leads us to a conclusion that:

1. There exists an all-pervading continuum everywhere in space.
2. So called ‘particles’ of ‘matter’ are not ‘substance’, rather they are the patterns of vibrations of URS.
3. The only real substance in this universe is the all-pervading URS; namely Sat-Chit-Aananda
4. Since the sat-Chit-Aananda is aware of its existence we must use the word He, rather than ‘It’ for Him
5. The process of vibrations can also be described in a subjective language, as religions do.