

# Formation of Universe

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**Abstract:** *The Universe came into existence due to sudden explosion of the Singularity. This sudden explosion is called as Big Bang. The Big Bang might contain more than one explosion. Due to the sudden explosion, there were many numbers of pressure whirls – with incredible speed of rotational motion – formed first around the Singularity. After that, the Particles like electrons, quarks were thrown away by the exploded Singularity (Big Bang). The thrown away particles were caught hold by the whirls. The particles captured by the Whirls were colliding with each other and hence the matter came into being. The gravitational force also came into effect. The matters were accumulated and formed as Stars in later stage. A galaxy is constituted by millions of gravitationally bound stars. The Universe contains millions of galaxies.*

**Keywords:** Whirls, Uni-space, Flat Galaxy Beams

## 1. Introduction

The Dark Energy is the major Driving force for the formation of our Universe. The dark energy exists in all places of Uni-Space without any exception. The mass of the dark energy was extremely dense during Big Bang. Immediately after explosion of the tightly packed and infinitely dense Singularity, plenty of “Pressure Whirls” might form in the dark energy as the impact of explosion.

Many of the thrown away particles like, electrons, quarks might caught hold by the whirls and in later stage formed as Galaxies. These particles might gathered into protons and neutrons in later stage. This phenomenon has been pointed out in the Pictures [Please see Pictures 1 to 5]. It is believed that all the events mentioned above happened within one second during the very beginning of the creation of Universe.

It is also believed that the entire matter, energy, space and time were simultaneously created in this phenomenon of Big Bang. Actually the space and time were not created during Big Bang.

Everything happened within the boundless Uni-space. Hence ‘Space’ was not created during Big Bang.

In the endless Uni-space, the “Formation – Deformation – Formation” of celestial matters (Universe) is a continuous process. Under the continuous changing process of creation and destruction, we cannot identify the past, present and future. Since there is no past, present and future, there may not be the “TIME” exists. Hence it is not correct to link the man made matter of TIME with the nature made matter of Universe. However we may utilize our own invention of TIME as a measurement Unit (or) tool for the convenience of our day-to-day activities and for other calculation purposes. So, TIME was also not created during Big Bang. [Note: Time is not a dimension also. If a ‘material’ or ‘Substance of a material’ is to be considered as a “Dimension”, it should be exists AT PRESENT. But the imaginary Time vanishes at every moment – continuously. Hence time is not at all a dimension.]

The Particles like electron, muon, tau have a mass and an electric charge. Because of the rotational force of the whirls, the particles are interacted with all four forces - The Strong, the weak, the gravity and mainly the electromagnetic force. Since the particles in the rotating whirls or galaxies are interacted with the electromagnetic force, they emit light. Hence the galaxies are visible.

The particles which are not interacted with electromagnetic force might be called as Dark matters.

The mass of the Dark Energy not diluted due to the expansion of the Universe. Instead, it helps the Universe to expand.

The word “Expanding” is also not correct. Because everything happened within the infinite Uni-Space.

Let us imagine that there are two ships starting their journey from the harbour of New York at the same time. One ship moves towards Plymouth harbour of the Great Britain and another starts its journey towards the harbour of Cape Town of South Africa.

At the beginning, the distance between both ships will be some meters. But after sometime, both ships will move away from each other and hence the distance between both of them and New York harbor will gradually increase. The area (or) place occupied by the ships are same [ie, total surface area of the ships] - only locations are differing. Hence we cannot say that the Ocean is expanding. The Atlantic Ocean never expands. The angular distance between both ships only increasing. Likewise the Universe never expands. Instead, the galaxies are moving faster in the Universe. Here we may remember that the singularity might be exploded with the angle of all 360 degrees. Hence the Universe is seems to be expanding in all sides. Actually the Universe is neither expanding nor shrinking.

The Dark Energy not only helps the Galaxies to move faster but also it makes each galaxy groups or cluster of galaxies in a separate “Flat Galaxy Beams” – which are having their own angular rotational motion. The direction of rotational motion of these each Flat Galaxy Beams varies with one another – This might be due to more than one Burst during

the process of Big Bang. Possibly, for this reason only, some stars in our milky way galaxy appear to have migrated from some other galaxies. Normally the Spiral Galaxies are containing two or more arms. [Arms of our Milky Way Galaxy are: Perseus, Scutum-Centaurus, Orion-Cygnus & Sagittarius-Carina]. The reason for this might also be there were more than one explosions happened during Big Bang. The impact of the Dark Energy on these Flat Galaxy Groups may continue during the entire expansion and may further convert the Flat Galaxy Groups in to thin. However the process of expansion may slows down due to the effect of Gravity in future.

In one stage, the rate of expansion may gradually decrease and stagnated. The stagnated galaxy groups and other Astronomical objects may collapse or brake and the gravitational attraction of the objects may also be decreased. At the final stage, every object may further converted as atoms of hydrogen, helium and other elements.

The fate of the extreme final stage of the Universe may be either “Big Crunch” or “Big Chill” or Part of the process of “Creation-Destruction-Creation” or something else. Whatever it may, as far as the unbounded Uni-Space concerned, all these happenings are like throwing a tea-spoon full of sea water again into the Sea.

## 2. Conclusion

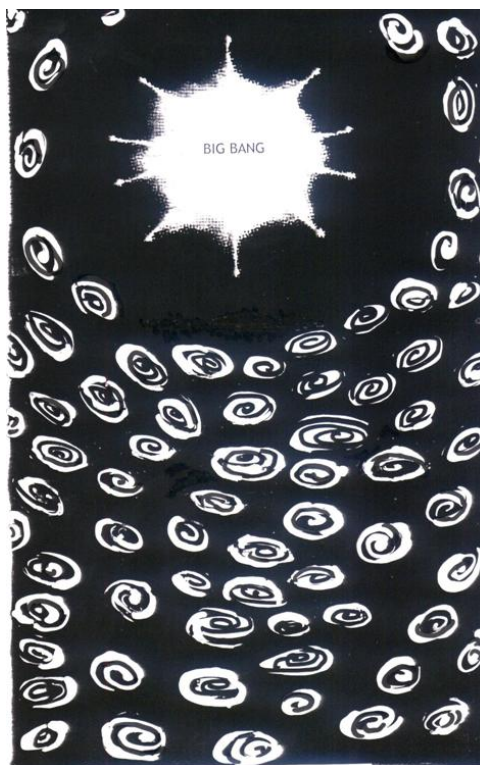
The infinite Uni-Space may not be dedicated exclusively for our Universe alone. There may be some more Universes exist in the Uni-Space. If galaxies are formed like ours in any Universe in future, the prime reason will be the Pressure Whirls formed at the very beginning stage ie., immediately after Big Bang.

## References

- [1] A public lecture given by Prof. Lymen Page (James S. McDonnell Distinguished University Professor in Physics, Princeton University) on 22.01.2019 at the venue of Chandrasekhar Auditorium, ICTS Campus, Bangalore.
- [2] Many Wikipedia articles of Google.



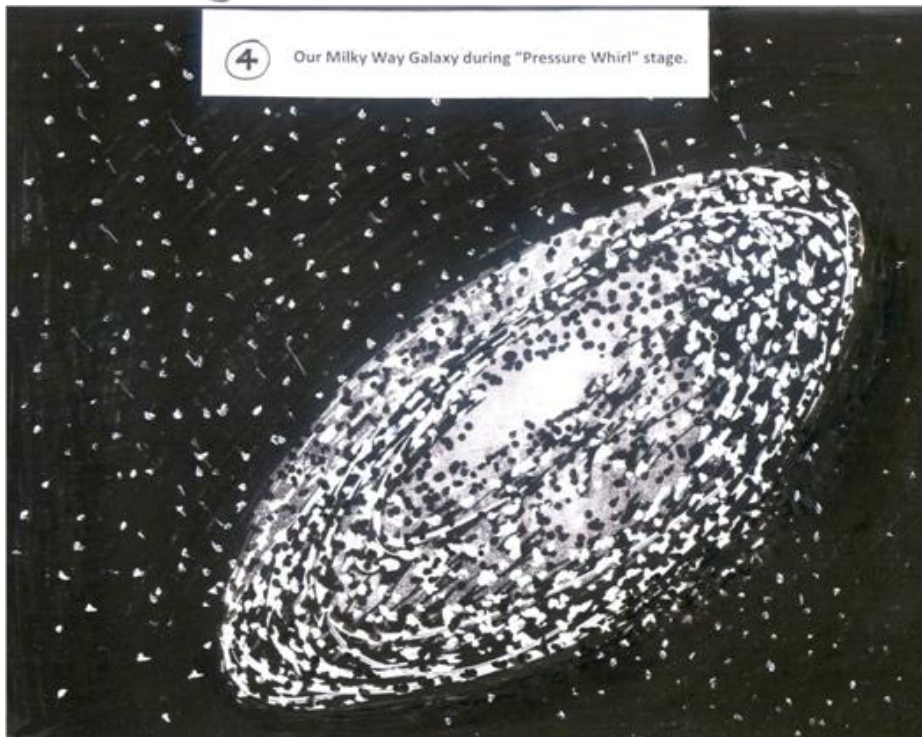
① BIG BANG



② Immediate Formation of Whirls around the exploded Singularity after Big Bang.



3 The Particles from Big Bang were caught hold by the whirls.



4 Our Milky Way Galaxy during "Pressure Whirl" stage.

