

New concept about how the Space-time or the Universe is born, why it is expanding, what is Dark Energy and Dark Matter, where is its edge?

Author: Omar Faruk, Independent Researcher.
Rangpur, Bangladesh.
Email: papersourceforge@gmail.com

We know that the Universe was born from the Big Bang, it was a singularity and it was contain everything in the universe up-to now. That means singularity is everything. But, before the Space-time was born compared to what you can say it was everything (singularity) or compared to what you say it was nothing or empty? By simple relativity in figure (1), we can say line-A is smaller than line-B and line-B is smaller than line-C.

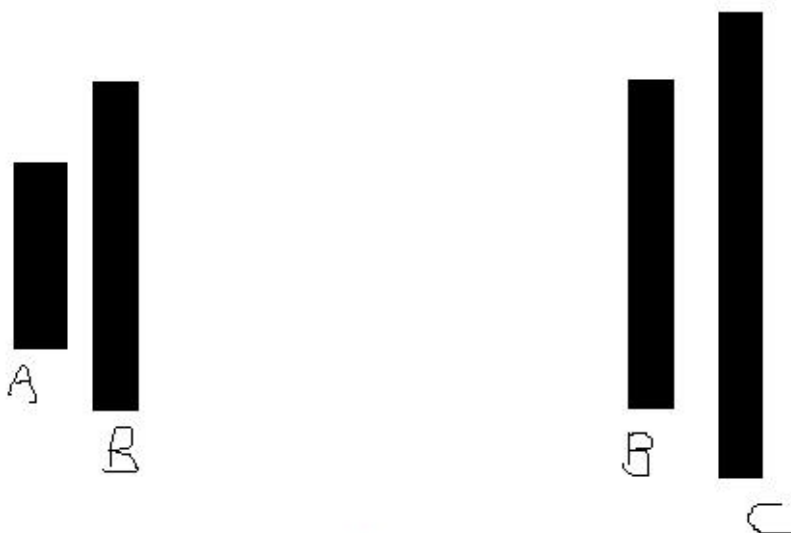


Fig: 1

So, at least we need something to compare with other things. Similarly before the birth of the Space-time, there was not anything to compare with to say it was empty or something and then even time was not exist too. Now In figure (2) think first, jar-A is nothing. But if we put jar-A in jar-B

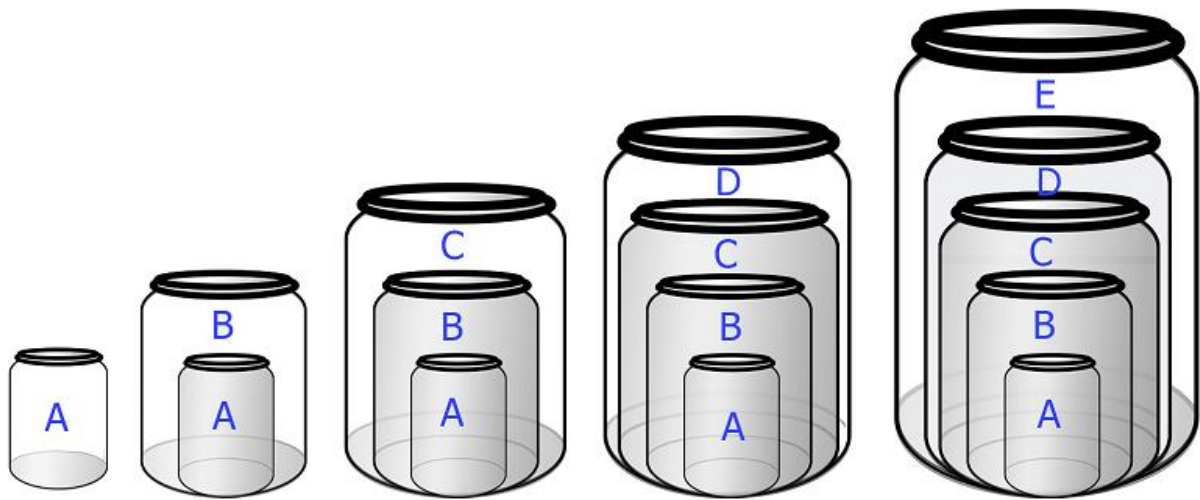
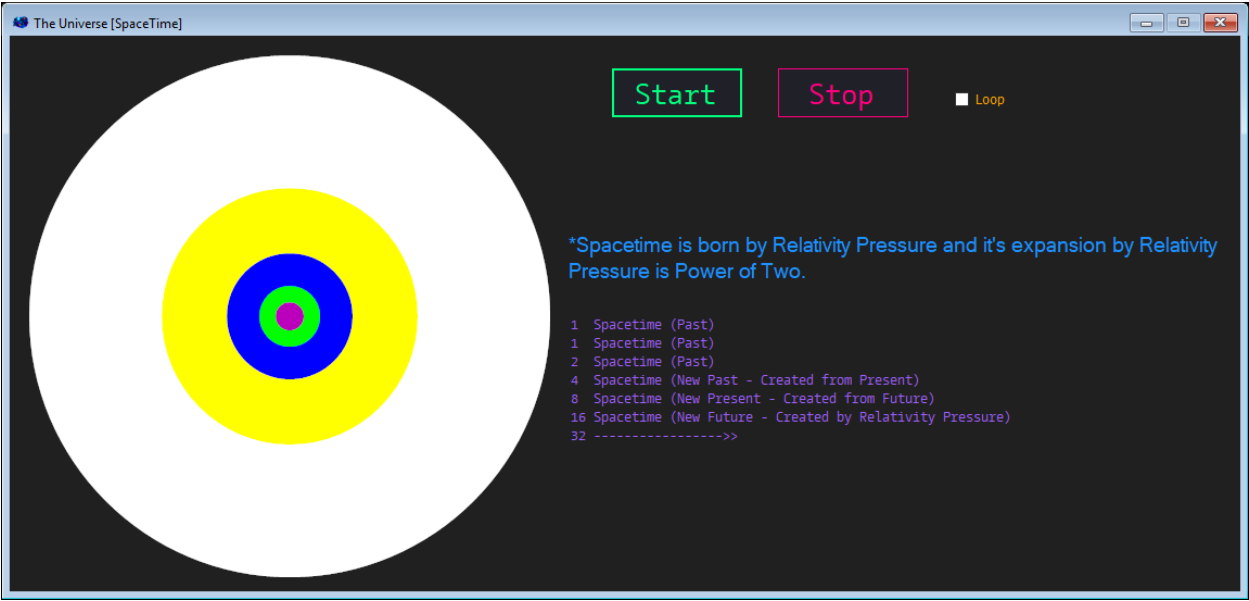
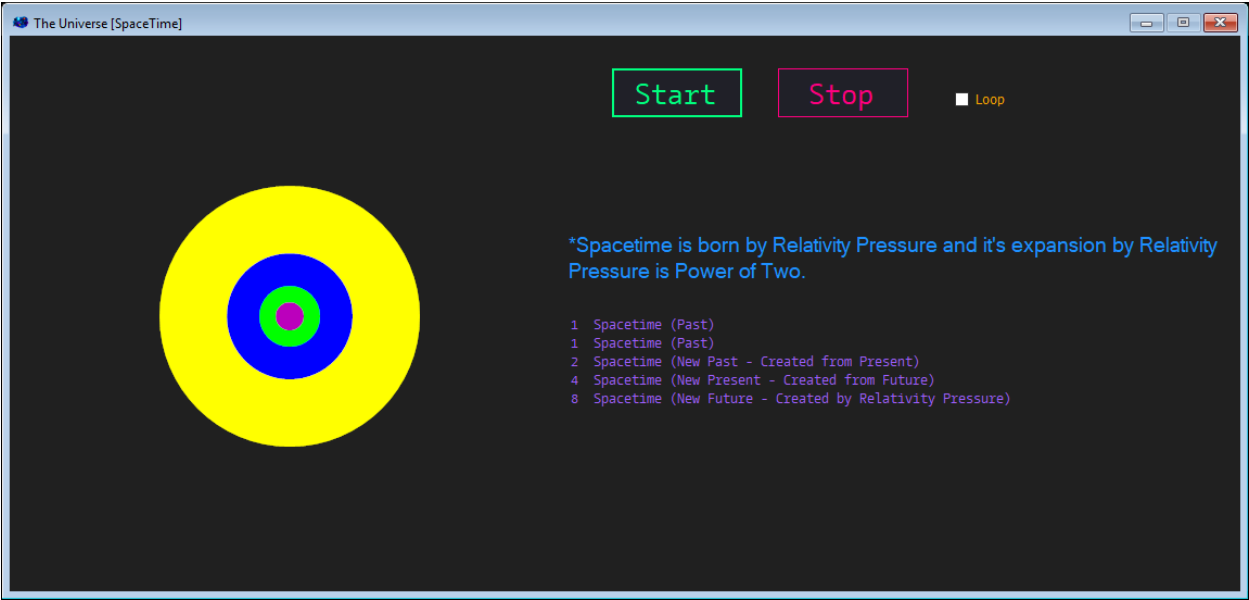
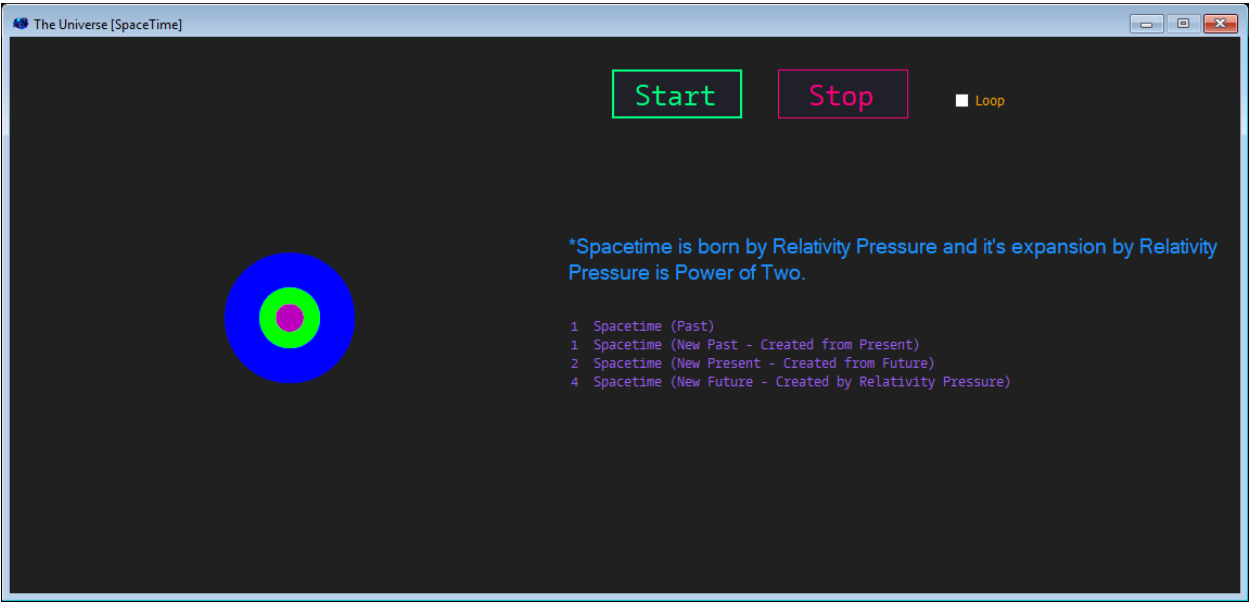
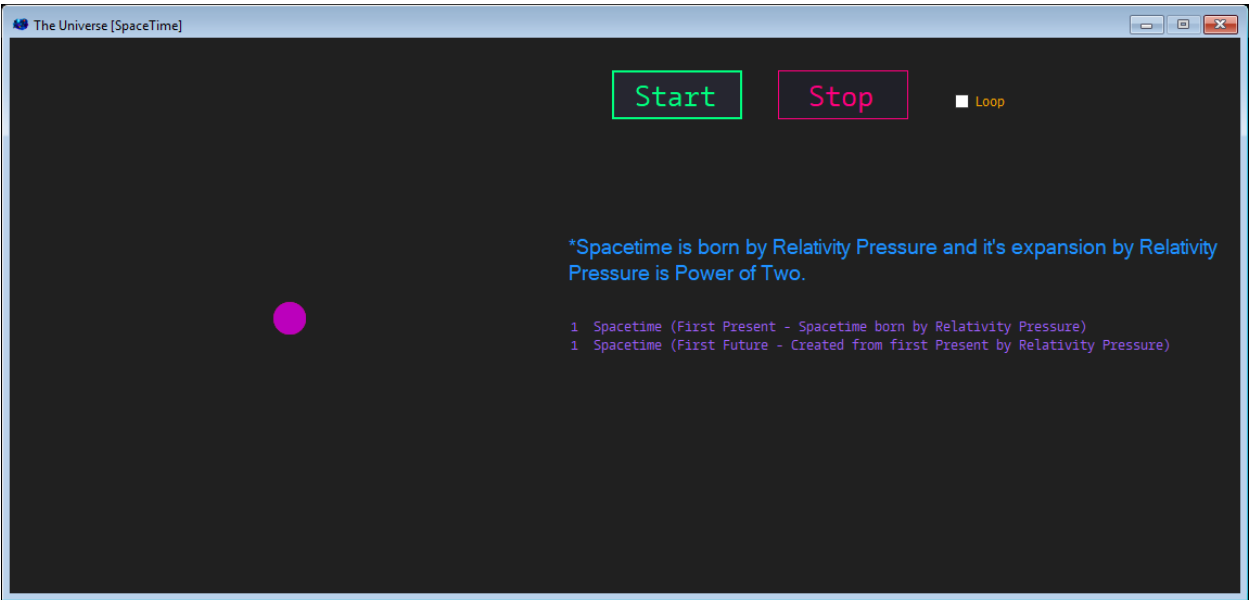


Fig: 2

bigger than jar-A, it seems that jar-A is something and if we think jar-B is nothing and again if we put jar-B with jar-A in bigger nothing jar-C then it seems jar-B with jar-A is something or everything. It means jar-B is nothing compared to jar-A, but jar-B is something compared to jar-C. Next all the jars alike. This is my main concept of how Space -time was born out of anything and without time by Relativity Pressure. The Space-time (Space and Time) is expanding for its existence and to balance relativity or by Relativity Pressure towards broader nothing or Future like jar-A to jar-B. Relativity Pressure is similar like vacuum pressure or a balloon in a vacuum chamber (Video-1). Space -time expansion is power of two by Relativity Pressure and the main principle of Relativity Pressure is, there cannot be only nothing or there cannot be only something. In this view, we can say that like a bomb the big bang never happened. Space and Time was born together by Relativity Pressure. There is no edge of the Present Space-time, because edge of the Present Space-time and Past Space-time steps are inside Dark Energy and Dark Matter. New infinite jars can be created by expansion for Relativity Pressure. The Universe that we can see in the sky contains all the Past and Future Space-time data by forming as Dark Energy and Dark Matter. We may find the center of our expanding Present Space-time by calculating the position, amount etc. of all the Dark Energy and Dark Matter in the Universe.

Simulation of this process by a software



It is by math below:

If we assume total Space-time is Power of Two:

1, 1, 2, 4, 8, 16, 32, 64, 128...Broader Empty or Future Space-time

At the beginning of Space-time:

Past Space-time (No Past Space-time)=0
Present Space-time (Something with Time and Space or First Present Space -time)=1
Future Space-time (Nothing without Time and Space or First Future Space-time)=1
Total Space-time=Past Space-time + Present Space-time + Future Space-time=0+1+1=2
Past Space-time/Total Space-time=0/2=0*100=0%
Present Space-time/Total Space-time=1/2=0.5*100=50%
Future Space-time/Total Space-time=1/2=0.5*100=50%
Dark Energy=Past Space-time + Future Space-time=0%+50%=50%
Dark Matter=50/100=0.5*50=25%

***This is how, Space-time was born by Relativity Pressure out of anything.**

After expansion of Space-time at 4 Present and 8 Future Space-time:

Past Space-time=1+1+2=4
Present Space-time=4
Future Space-time=8
Total Space-time=Past Space-time + Present Space-time + Future Space-time=4+4+8=16
Past Space-time/Total Space-time=4/16=0.25*100=25%
Present Space-time/Total Space-time=4/16=0.25*100=25%
Future Space-time/Total Space-time=8/16=0.5*100=50%
Dark Energy=Past Space-time + Future Space-time=25%+50%=75%
Dark Matter=75/100=0.75*25=18.75%
Time increasing rate=Current Step/Previous Step=4/2=2

After more expansion of Space-time at 32 Present and 64 Future Space-time:

Past Space-time=1+1+2+4+8+16=32
Present Space-time=32
Future Space-time=64
Total Space-time=Past Space-time + Present Space-time + Future Space-time=32+32+64=128
Past Space-time/Total Space-time=32/128=0.25*100=25%
Present Space-time/Total Space-time=32/128=0.25*100=25%
Future Space-time/Total Space-time=64/128=0.5*100=50%
Dark Energy=Past Space-time + Future Space-time=25%+50%=75%
Dark Matter=75/100=0.75*25=18.75%
Time increasing rate=Current Step/Previous Step=32/16=2

Summery:

- The Universe or Space-time was born out of anything by Relativity Pressure.
- Relativity Pressure is Power of Two.
- Present, Past, Future ratio is constant.
- Past Space-time is Dark Energy.
- Dark Matter is forming Present Space-time from Dark Energy.
- The age of Space-time cannot be calculated. Because, the first Present Space-time was how small we don't know.
- Expansion ratio is constant.
- Expansion is infinite.
- Relativity Pressure and Newton's Third Law (For every action, there is an equal and opposite reaction) is different.
- The ratio of Dark Energy and Dark Matter is constant.
- The smallest thing is First Present Space-time and it is inside Dark Energy or 25% Past Space-time.
- The Universe contains Present Space-time, Past Space-time, Future Space-time, Dark Energy and Dark Matter. So, The Universe and Present Space-time is different.

Evidences:

- ✓**Evidence-1:** Time increasing ratio is constant.
- ✓**Evidence-2:** By The James Webb Space Telescope (JWST) ->There is no edge of the Universe (Present Space-time or Ordinary Matter).
- ✓**Evidence-3:** In [Figure-3](#) today the amount of Dark Energy in the Universe is approximately 72% and the amount of Dark Matter in the Universe is approximately 23%. 13.7 billion Years ago the amount of Dark Energy in the Universe is not mentioned and the amount of Dark Matter in the Universe was approximately 63%. This two statistics we found at same time or today.

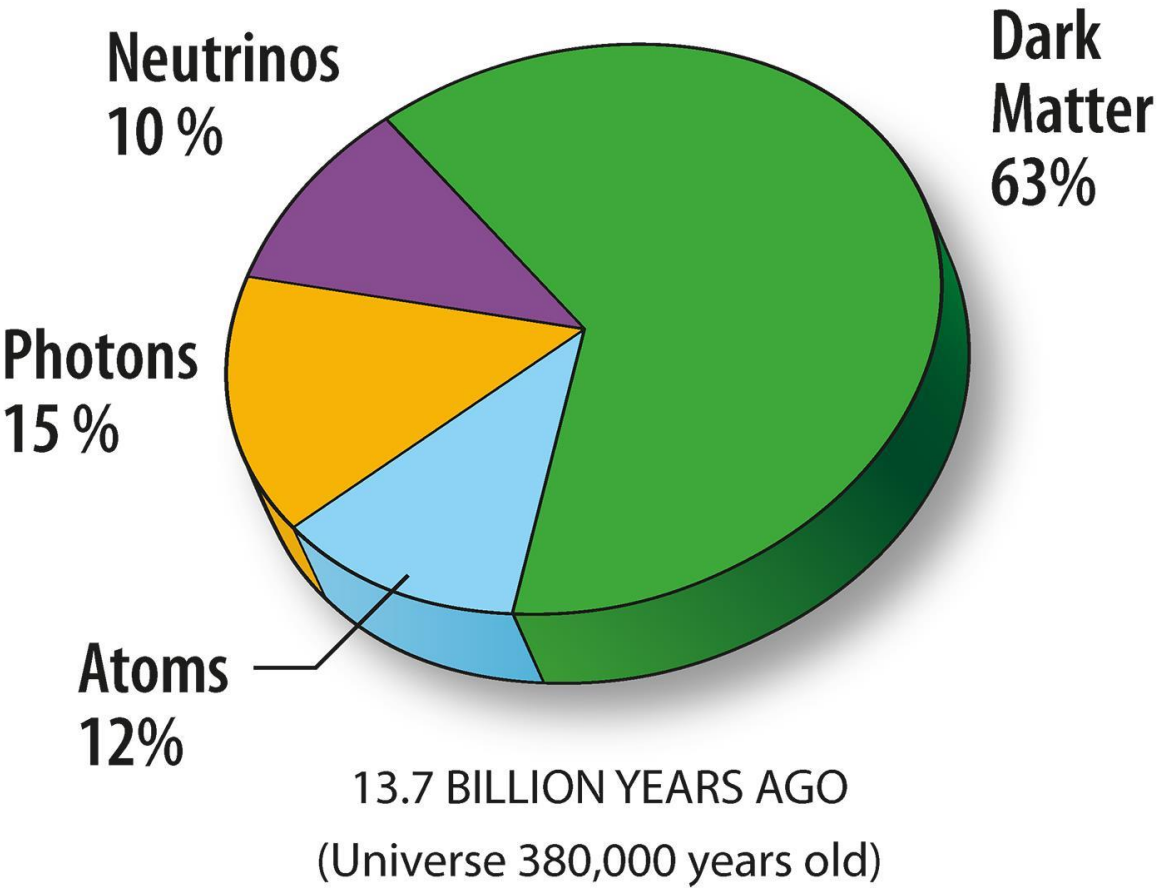
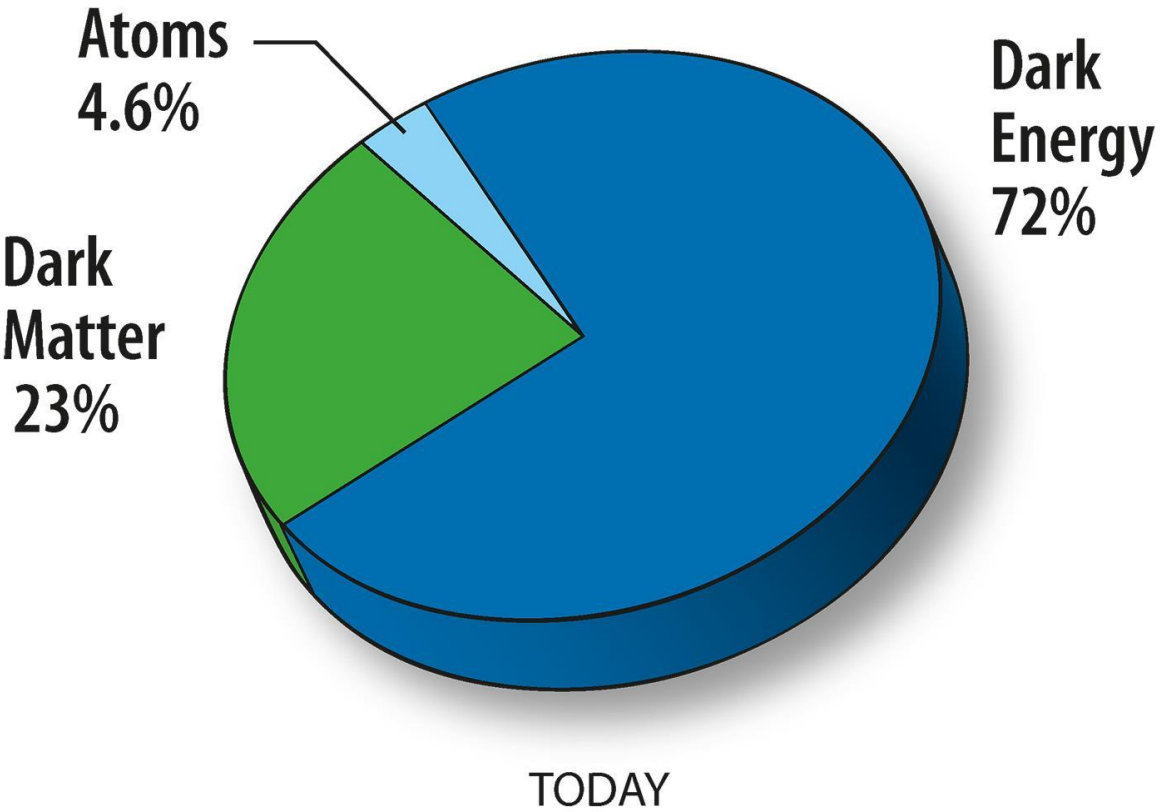


Fig-3

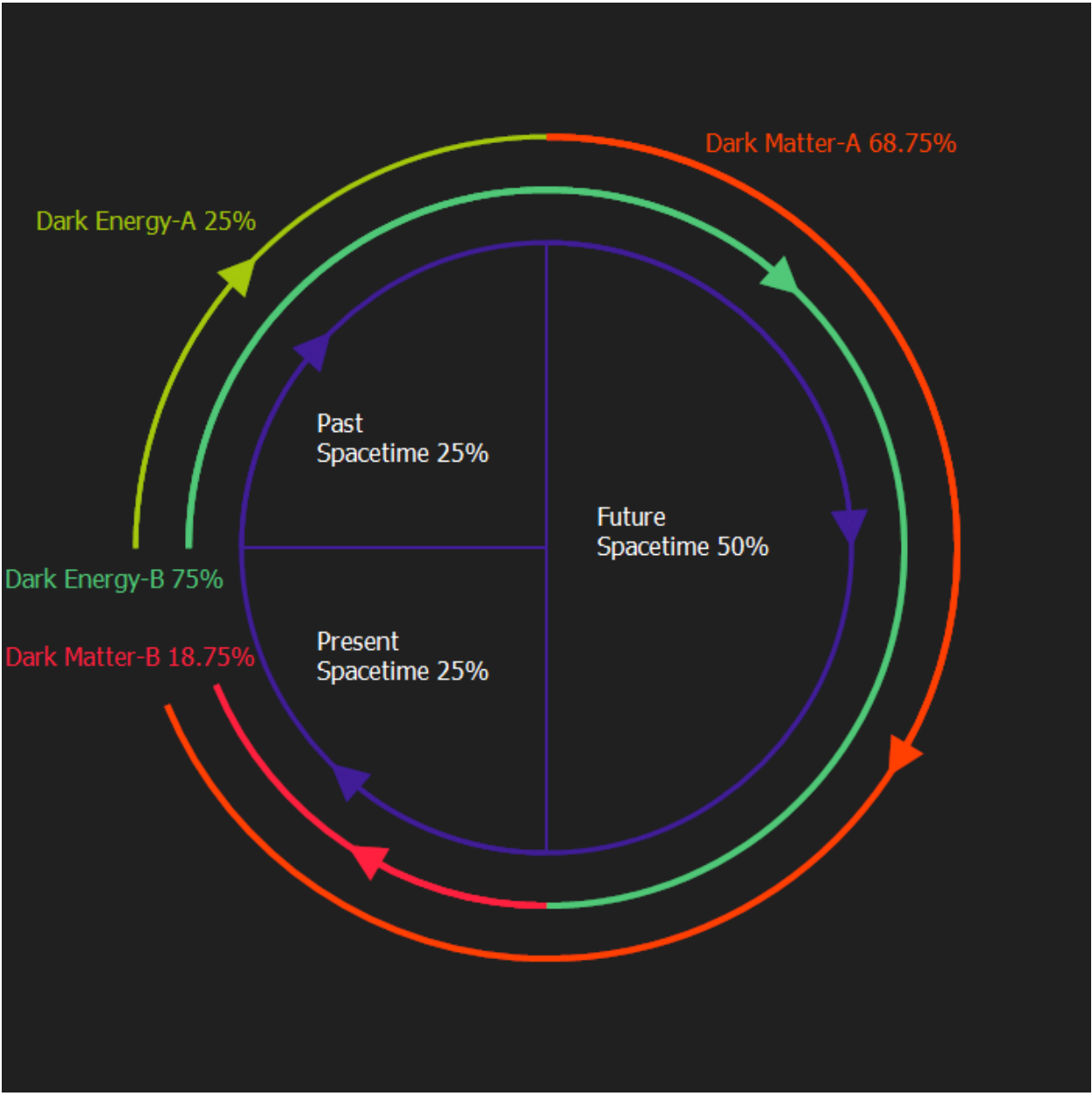


Fig-4: A Step of Space-time Expansion or Power of Two Series

The amount of Dark Energy-B is 75% and Dark Matter-B is 18.75% in Figure-4 and the amount of Dark Energy and Dark Matter today in Figure-3 is almost equal. The amount of Dark Energy-A is 25% and Dark Matter-A is 68.75% in Figure-4 and the amount of Dark Energy and Dark Matter 13.7 billion years ago in Figure-3 is almost equal. It means 13.7 billion years (Space) and 380,000 years (Time) is a step of Power of Two series or space-time expansion by Relativity Pressure.

✓**Evidence-4:** We can see in the sky only expanding space and time, but the size of stars, planets and atoms are not expanding.

✓**Evidence-5:** There is much more evidence in quantum mechanics.

Links:

[→Balloon in Vacuum Chamber-Vacuum Pressure \(Video-1\)](#)

[→An Space-time Expansion Step](#)

[→The Universe](#)