

**DARK MATTER AND DARK ENERGY FORMATION****\*Lie Chun Pong**

HKUST

Received 18<sup>th</sup> September 2025; Accepted 20<sup>th</sup> October 2025; Published online 17<sup>th</sup> November 2025

---

**Abstract**

In the past, many scientists have focused on researching black holes, and each has developed a different theory about them [1][2][3]. In this paper, we aim to reveal the nature of the act, such as dark matter and dark energy formation. Interestingly, as we used calibration from star light formation and black hole transformation, we discovered that there is a kind of dark energy formed from the dynamic flow of energy. In multiple layers these multi-space layers caused by a cosmic net structure composed of net-pointing elements (structures) that eventually form multiple points from an invisible space net. Additionally, this paper suggests that dark energy may originate from dark matter, caused by stars being captured and funneled into black holes, which ultimately transforms into dark energy, then captured into other space layers. This process contributes to the expansion force of the universe, causing it to expand.

**Keywords:** Dark Matter, Dark Energy, Expansion Force of Energy, Net Pointing Element (structure).

---

**INTRODUCTION**

In the black hole theory developed by Hawking [4], it emphasizes that a black hole will swallow all matter, including light. From the point of the black hole's formation, it will capture all light, which means that inside the black hole, there may be matter that is more powerful or faster than light. At this critical point, which scientists call "singularity black hole", in other words, this black hole point may have a dynamic flow of circulation. In fact, Hawking's approach not only suggested that there was a Big Bang creation, but also that there will be a black hole vapor condition. In this research paper, we will focus on what causes the universe to continuously expand and how it does so. If we think deeply, it needs extra power to sustain it. According to the black hole theory developed by Stephen William Hawking, black holes will eventually dissipate, producing what is called black hole vapor, and all the information will be released into vapor. However, there is some disagreement regarding the information paradox. The information paradox involves energy transformation: since information is like light and includes energy, it suggests that energy may be trapped inside the black hole. I strongly believe that dark energy could be formed from the capture of stars and light inside black holes, ultimately transforming into dark energy through tunneling at low energy levels. This low energy state may cause scattering effects, leading to a transition into a lower energy grid. The dark energy could then be trapped in another layer of outer space, spreading through a cosmic grid in a different layer, which causes dark energy. This paper suggests that at the dark side of the bottom of a black hole, there is a zero-form of weight energy that may have caused the puzzle-like structure of the space net to sink below the map level, forming a kind of coastal glacier in constant contact with the surface of the space layer. This energy capture will struggle to push the layer toward its limits. The paper develops a space puzzle mapping gridding structure concept approach, which may eventually help solve the mystery of dark matter and dark energy. In addition, in this study, we suggested that space may contain a sort of grid wave layers within which currents swirl around the space Pipe Liner at other major glaciers in a region called the X space wave-sea (tidal magnet wave force).

For instance, when two neutron stars collide, they generate enormous waves. These waves, known as gravitational waves, then travel across the universe. That means, when two neutron stars merge, they produce powerful gravitational waves that propagate through the universe, carrying vital information about the cataclysmic event. These currents are now being drawn to the surface by a shift in tidal force (tidal magnet wave force) that creates space wave-wind patterns linked to temperature energy all the way up in the space tropics, which is right above the depths along the base of the space continent. The energy pushes toward the space layer and into shallower matters. As a result, they hit shelves extending out from the glaciers ahead, finally developing a sort of whirlpools forming at pine space net grid-island, moving toward the edge.

The warm energy created by the black hole's scattering effect pushes beneath the space shelf, steadily and stubbornly scraping the dark underside of the space glaciers in the space wave ocean. Then, finally, dark matter may transform into dark energy, in other words, dark energy consumes dark matter. At extremely cases of temperatures, like those of space glaciers, this process occurs, changing dark matter into dark energy. The energy space layer will become thinner and more buoyant, and it begins to lift off a series of space-level rocky ridges that anchor it to the space land at the zero-weight form of energy size. All that energy piled up on the space continent behind it can now push it forward, like a massive glacier millions of years in the making, drifting and flowing relentlessly toward the space-sea in the style of energy flattening pipeliner spreadsheet scatters.

The Space Island glacier may foreshadow larger glaciers on the space continent beyond, near the giant glacier on the northeast side. Our concept mapping shows that this space glacier sits atop the deepest canyon in space, possibly located beneath 3 trillion kilometers below the space-wave-see-side level (estimated RedShift wavelength). Recently, NASA [5] has shown that a glacier is advancing into the space backside and has started to speed up, indicating that warm energy is seeping into the space chasm beneath it. This paper predicts that with the space-polar transformation, the space glaciers will disintegrate as a result of dark energy.

Scientific analysis has sparked a great debate about the potential of dark energy matter for a decade, but it remains a mystery. Our paper suggests that dark energy may be transformed from dark matter through the black hole tunneling effect. This new idea could lead to a new way of thinking about space, including the formation of dark matter and dark energy. We believe that space energy will create a kind of space energy climate, influencing the universe to continue its growth and expansion. By tracking changes in signals from surrounding space objects, we can observe impacts caused by dark energy, such as hits or heating effects. Based on NASA's [6] discoveries, this paper suggests that dark energy might be transformed by black hole processes, with the energy eventually trapped in the lower layers of space through scattering effects.

To utilize the NASA picture [7], this paper modifies it by further interpreting and adjusting it into what we call a grid crossing energy wave zone, which this paper names: XSpace Greenland and YSpace Antarctica. The X axis (SpaceZone) and Y axis (Space Zone) are followed by a three-dimensional analysis. If we have a clear understanding, it will expand into more than three dimensions (six dimensions). In the curvature approach (on the curve side), it will create a pole magnetic effect (from the pole side), caused by energy resilience resulting from dark matter and dark energy. These space spreadsheets are associated with a level of warm energy that might trigger rapid, large-scale melting and a transition to another layer through space layers, grid clouds.

### Space-Pacific

In the Space-Pacific, we can map them into the Western style of energy approach and the Eastern style of energy polea approach, based on the NASA picture [8]. By utilizing NASA [9], we can observe the distribution of energy particles from smoke dust, and their transformation into galaxy-building processes may affect star formation and the behavior of space-energy-net (weather) systems when they alter and transform into energy spacetime checks and balances. This process will eventually create the structure of spacetime and the puzzle-like format of space-net. This paper believes that space energy is influenced by various factors, such as the role of space stars and space clouds in either absorbing solar energy or reflecting it back into space.

Earth-observing satellites constantly update detailed maps of the planet, carefully tracking accelerating changes and exploring ways to reduce them. In a discovery, it was found that more than, 10,000 years ago, the Space Zone (sub-X) suffered significant energy loss due to an Ice Age Space Transformation. Today, however, the space zone's climate is hot and polar, stemming from the Electricity Pole. Despite appearances, high-resolution satellite maps show that the area is less barren than it looks. Using advanced computer algorithms, ground cover, biomass, and carbon storage are accurately measured and analyzed, may leading to specific findings.

This paper predicts that in arid and semi-arid regions of space, such as Space Northern X zone, up to 40% of dark matter is stored within the deep layers of the carbon surface. It is believed that these regions are crucial for securing our spacetime future. The segmentation of the transitional movement in the space Pola will affect the wave-grid

segmentation, which in turn influences the movement of space layers beneath the surface. With this innovative concept, we hope to uncover the mysteries of dark matter and the transformation of dark energy. Additionally, over several billion light-years, a vast space wave net creates a space wall across the region, generating by products like dark energy netting through cosmetics in the form of invisible zero matter within a special space grid textile. Through transformation, these space layers (or 'trees') transform into critical space energy, including dark matter and dark energy.

Accordingly, the space-limited resource for a steadily increasing star population on star planting, which eventually evolves into a black hole, could eventually transform into the pole region that creates dark energy beneath the layer. In fact, this paper believes that the black hole does not vaporize by itself; the black hole vaporization process depends on energy consumption. Conversely, the energy may not vaporize and disappear; it simply gets captured into another region beneath the spacetime that we cannot see. That is the reason why there is a black hole vapor dilemma. This paper believes that our discovery may solve the mystery of the black hole vapor dilemma. Regarding NASA's discovery, we believe that the black hole contains something inside that has captured some form of energy.

By promoting our new approach of the space energy net, this idea is gaining popularity with dark energy flowing around the black hole, which is located a trillion light years away. In the galaxy, there might be a type of space-plant-net focused on rewinding the negative energy caused by energy transformation activity. This aligns with a push effect due to space expansion.

The space energy-capturing ability is one of our most important discovery predictions about transformation beneath the pull of energy change, as dark energy helps push our universe away from spacetime collapse. Emissions of dark energy from black holes may contribute to building our galaxy and other space formations created by dust and gases. Currently, although our technologies are still insufficient to fully explain spacetime formation, in the future, NASA might uncover new insights into black hole formation that could support our predictions. In fact, some star nations and star communities are actively adopting energy contraction, viewing spacetime as an opportunity for a new era, with extraction through the pole electricity grid. In addition, more scientists are now working in exploring dark energy sectors, and nearly all of them are puzzled by the dilemma of formation, which indeed relates to energy transformation that remains a mystery and a matter of style. This energy shift is likely to impact space-time and space expansion. In the long term, this paper predicts that as the energy form changes (shifts), spacetime may roll back from the Big Bang beginning, so there may be a need for deliberation on the part of star societies, star groups, star lines, and star distinctions.

### In-conclusion

This study can shed light on the possibility of discovery in dark matter and dark energy formation, allowing us to view energy transformation as a foundation for the evolution that connects to our galaxy systems. In addition, the different layers in space and the universe may have captured and converted matter into dark energy. This matter of dark energy may sustained our galaxy. As we are now learning and discovering

about space, our exploration activities may significantly shape the future of spacetime. Hope this research paper can benefit the world and humanity.

## REFERENCES

1. Crittenden R., S. Nadathur, (2025). Dark Energy Spectroscopic Instrument Data. DESI Collaboration.
2. Marc Davis, George Efstathiou, Carlos Frenk, and Simon White, (1985). Cold dark matter simulations of structure formation. NED-IPAC.
3. Lan, C. (2023) "Regular black holes: A short topic review." International Journal of Theoretical Physics. arXiv:2303.11696
4. Hawking, S. W. (1975). "Particle Creation by Black Holes." Communications in Mathematical Physics 43, 199–220.
5. Serrano Borlaff, A. "A 'Sideways' Black Hole in Galaxy NGC 5084 Revealed by Novel X-ray Image Analysis." The Astrophysical Journal, Dec 18, 2024. This paper details the discovery of a black hole rotating at a 90-degree angle relative to its galaxy, identified through archival data from NASA's Chandra X-ray Observatory and complemented by multiwavelength observations.
6. Van Dokkum, P., Brammer, G. 2025. "NASA's Webb Finds Possible 'Direct Collapse' Black Hole," NASA.
7. Ewing, M., 2025. "Polarization Measurements of the 'Heartbeat Black Hole' IGR J17091-3624 Using NASA IXPE," NASA.
8. NASA's NICER Maps Cosmic Crashes near Black Holes, 2025.
9. NASA IXPE Reveals X-ray-Generating Particles in Black Hole Jets, 2025.

\*\*\*\*\*