

The Transformation of Visible Matter into Singularity/Black Matter

A Quranic and Scientific Exploration of Black Holes and Singularities

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ABSTRACT

This research paper explores the Quranic verses about description of human creation from "sounding clay" derived from "An Altered Black Mud/Decayed Mud" and transformation of "Visible Matter" into **SINGULARITY/BLACK MATTER** (not dark Matter) produced from the collapse of stars into black holes & modern physics concepts of vibrating energy at the core of matter etc. We will also integrate Quranic verses, astrophysical observations, and detailed possible calculations, this paper hypothesizes that singularities in black holes represent ultra-concentrated **BLACK MATTER** in Black Hole. Further, it discusses implications for the origin of visible matter from dark matter and the relationship between these fundamental components of the universe.

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1. INTRODUCTION

• Scientific Context:

Visible matter forms 5% of the universe, while dark matter constitutes 27%. Black Holes, formed by the collapse of massive stars, compress matter into singularities—points of extreme density and unknown composition. This research investigates the hypothesis that singularities represent a highly concentrated form of matter, what we will call **BLACK MATTER** (not dark Matter) produced from the collapse of stars into black holes, in a "stable" ("Kullun Fi Falak" (21:33)) system.

• Quranic Context:

Quranic verses such as Al-Hijr (15:26-29), Surah Ar-Rahman (55:14) describe human creation from "**SOUNDING (RINGING/VIBRATING) clay**" (ATOM & ALL OTHER ON PERIODIC TABLE) formed from "An Altered Black Mud/Decayed Mud". This metaphor reflects vibrating energy as the essence of matter, linking to modern physics. Now we need to find out what is "**An Altered Black Mud/Decayed Mud**"?

• Objective:

To explore the transformation of "**Visible Matter (SOUNDING (RINGING/VIBRATING) clay)**" into **SINGULARITY/BLACK MATTER** (Black Mud) (not dark Matter) produced from the collapse of Stars into Black Holes and integrate these phenomena with Quranic metaphors and astrophysical equations.

2. HYPOTHESIS EQUATIONS

EQUATION 1

We know our physical body is made from **SOUNDING (RINGING/VIBRATING) clay – ATOM (PERIODIC TABLE)**
(MODERN PHYSICS CONCEPTS – VISIBLE MATTER CREATED FROM OF VIBRATING ENERGY – NEUTRON/PROTON/ELECTRON/QUARKS)

EQUATION 2

Everything is made from same **SOUNDING (RINGING/VIBRATING) clay – ATOM (PERIODIC TABLE)**
(E.g. We also know that when we die our body get mixed with Earth. Today an atom that is in us, will be in something else (Plant, Animal, Earth).)

EQUATION 3

In Black hole formation this **SOUNDING (RINGING/VIBRATING) clay** in Star is transformed into **SINGULARITY/BLACK MATTER** (not dark Matter), and the result is Black Hole.

EQUATION 4

Surah Al Kahf (18:86): **أَنْ وَإِمَّا تُعَذِّبُ أَنْ إِمَّا أَلْقُرْآنَيْنِ يَذَّا فُلْنَا قَوْمًا عِنْدَهَا وَوَجَدَ حَمِيَّةٍ عَيْنٍ فِي تَغْرُبُ وَجَدَهَا الشَّمْسُ مَغْرِبَ بَلَعِ إِذَا حَتَّىٰ ۚ حُسْنًا فِيهِمْ تَتَّخِذُ**

Surah Al Kahf (18:86): Until, when he reached the setting place of the sun, he found it setting in a **SPRING OF BLACK MUDDY (OR HOT) WATER**. And he found near it a people. We (Allâh) said (by inspiration): "O Dhul-Qarnain! Either you punish them, or treat them with kindness."

EQUATION 5

Surah Al-Hijr (15:26): **مَسْنُونٌ حَمًا مِّنْ صَلْصَلٍ مِّنَ الْإِنْسَلِنِ خَلْقْنَا وَلَقَدْ**

Surah Al-Hijr (15:26): Indeed, We created man from **SOUNDING (RINGING/VIBRATING) clay MOULDED/WROUGHT** from **BLACK MUD/AN ALTERED BLACK MUD/DECAYED MUD**

FROM ALL ABOVE 5 EQUATIONS

HUMAN IS MADE FROM **ATOM – (NEUTRON/PROTON/ELECTRON/QUARKS - PERIODIC TABLE)**, and some goes to other **Visible/Physical/Baryonic matter** (Plant, Animal, Earth).

And this matter was made from **SINGULARITY/BLACK MATTER "An Altered Black Mud/Decayed Mud"** (As in Black hole it changed back to singularity).

Now we know (**حَمًا & عَيْنَ**) both made of **SINGULARITY/BLACK MATTER** (and we know we can only see this naturally in Black Hole).

WORD - (**عَيْنَ**) EYE & SPRING

EYE may represent -

- Only "LIGHT" can pass through eye,
- Black hole looks like eye

SPRING may represent -

- Spring of **SINGULARITY/BLACK MATTER "An Altered Black Mud/Decayed Mud"**.
- Spring can represent stationary water or a flows from higher potential to lower potential.
- Its "flow" with respect to Black Hole (**SINGULARITY/BLACK MATTER "An Altered Black Mud/Decayed Mud"**) could symbolize the gravitational pull or a movement of energy/matter toward that focal point.

With all these we can understand what **Dhu al-Qarnayn** possibly saw when he travelled, and for now there only one logical thing "A BLACK HOLE", and the material he used can possibly be "Dark Matter" or may be "Black Matter", as we already know dark matter exists but only interaction is through gravity.

Another thought is that what we considering “Black Matter” can actually be “Dark Matter”, concentrated at one point during black hole formation. Black Hole itself is nothing but an infinite space time curve due to this said “matter”.

3. QURAN VERSE (41:53) UNDERSTANDING

Surah Fussilat (41:53): شَهِدُوا كُلُّ عَلَىٰ أَنَّهُ بِرَبِّكَ يَكْفُ أَوْلَمُ الْحَقُّ أَنَّهُ لَهُمُ يَبَيِّنُ حَتَّىٰ أَنفُسِهِمْ وَفِي الْأَفَاقِ فِي ءَابَاتِنَا سُرِّيهِمْ
 We will show them Our signs in the universe and within themselves until it becomes clear to them that this ‘Quran’ is the truth. Is it not enough that your Lord is a Witness over all things?

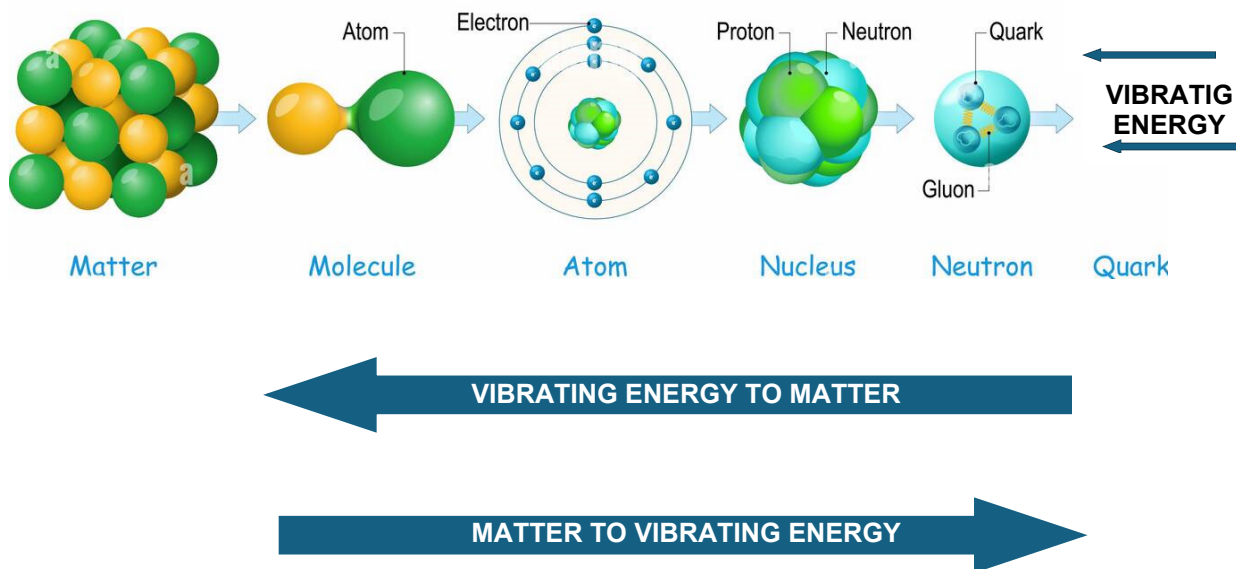
NOW WE CAN UNDERSTAND SURAH FUSSILAT (41:53) BETTER

VIBRATING ENERGY > QUARKS > NEUTRON/PROTON/ELECTRON > ATOM > CELESTIAL BODIES (ANY MATTER/MASS INCLUDING US) ETC > SINGULARITY (BLACK MATTER)

SINGULARITY (BLACK MATTER) > CELESTIAL BODIES (ANY MATTER/MASS INCLUDING US) ETC > ATOM > NEUTRON/PROTON/ELECTRON > QUARKS > VIBRATING ENERGY

Visible/Physical/Baryonic matter and SINGULARITY/BLACK MATTER
 Are different form of same thing.

And we know SOUNDING (RINGING/VIBRATING) clay was made MOULDED/WROUGHT from
 BLACK MUD/AN ALTERED BLACK MUD/DECAYED MUD



(Fig. 1)

4. ZULKARNAIN’S WALL AND DARK MATTER

To explain the concept of **Dhu al-Qarnayn’s** wall as described in the Quran, using dark matter can be interpreted as an early understanding of creating barriers or protections using unknown or extraordinary materials, possibly dark matter.

4.1. Properties of Dark Matter

Dark matter's non-interaction with light makes it invisible but potent. It could theoretically be harnessed for constructing a protective barrier, as described in the Quran.

In modern terms, dark matter could be seen as the "unseen" material that possesses properties unlike those of visible matter. If Dhu al-Qarnayn used dark matter, it would imply knowledge of materials beyond our current understanding—akin to science fiction ideas where extraordinary materials are used for construction.

4.2. Dhu al-Qarnayn Construction

A dark matter-based wall could absorb energy, shield against cosmic rays, and remain indestructible to conventional forces. Such a wall aligns with the Quranic description of Dhu al-Qarnayn's barrier protecting people from Gog and Magog.

- Its Non-reflective, impervious properties suggest dark matter's role as a protective barrier.
- Its Strong gravitational influence supports structural integrity and durability.
- Speculative, yet illustrative of dark matter's unique properties in cosmic structures
- Properties of dark matter, such as energy absorption and cosmic shielding aligns with the metaphorical descriptions in the Quran of barriers separating threats, analogous to modern dark matter theories and it also aligns with modern concepts in physics, where dark matter could be manipulated to alter cosmic structures or serve as a form of "cosmic glue" that binds galactic structures together.
- Constructed using dark matter, symbolizing the ancient knowledge of cosmic energy manipulation.

4.3. Hypothetical Application

- One could theorize that Dhu al-Qarnayn 's wall was constructed using materials far superior to anything we currently understand—a material that could only be dark matter.
- Again this construction could be akin to the use of hypothetical exotic materials like those found in advanced sci-fi scenarios, where materials are engineered to have extraordinary properties, possibly including properties akin to the theoretical properties of dark matter.

5. EXPLANATION

5.1. QURANIC INSIGHTS ON SOUNDING CLAY AND ALTERED BLACK MUD (KEY VERSES)

- Surah Al-Hijr (15:26): مَسْنُونٌ حَمِئًا مِّنْ صَلْصَلٍ مِّنَ الْإِنسِنِ خَلْقًا وَقَدْ
- Surah Al-Hijr (15:26): Indeed, We created man from **SOUNDING (RINGING/VIBRATING) clay MOULDED/WROUGHT** from **BLACK MUD/AN ALTERED BLACK MUD/DECAYED MUD**
- Surah Al-Hijr (15:27): أَلَسْمُومِ تَارٍ مِّن قَبْلُ مِّنْ خَلْقِهِ وَالْجَانَّ
- Surah Al-Hijr (15:27): As for the jinn, We created them earlier from smokeless fire.
- Surah Al-Hijr (15:28): مَسْنُونٌ حَمِئًا مِّنْ صَلْصَلٍ مِّنْ بَشَرًا خَلَقَ إِيَّيَّ لِلْمَلَائِكَةِ رَبُّكَ قَالَ وَإِذْ
- Surah Al-Hijr (15:28): And [mention, O Muḥammad], when your Lord said to the angels, "I will create a human being out of **SOUNDING (RINGING/VIBRATING) clay** from **BLACK MUD/AN ALTERED BLACK MUD/DECAYED MUD**

- Surah Al-Hijr (15:29): سَلْجِدِينَ لَهُ فَقَعُوا رُوحِي مِنْ فِيهِ وَتَفَخَّتْ سُوَيْبُهُ فَإِذَا
- Surah Al-Hijr (15:29): And when I have proportioned him and breathed into him of My soul,¹ then fall down to him in prostration."

- Surah Ar-Rahman (55:14): كَالْفَخَّارِ صَلَّصَلْ مِنْ الْإِنْسَانِ خَلَقَ
- Surah Ar-Rahman (55:14): Surah Ar-Rahman (55:14): "He created humankind from **SOUNDING (RINGING/VIBRATING)** clay like pottery"

- Surah Al Kahf (18:86): تُعَذِّبَ أَنْ إِمَّا الْفَرْنَئِينَ يَدَا فُلْنَا قَوْمًا عِنْدَهَا وَوَجَدَ حَمِيمَةً عَيْنٍ فِي تَعْرُبٍ وَجَدَهَا الشَّمْسُ مَعْرَبٌ بَلَّغَ إِذَا حَتَّىٰ ۚ حُسْبًا فِيهِمْ تَتَّخِذُ أَنْ وَإِمَّا
- Surah Al Kahf (18:86): Until, when he reached the setting place of the sun, he found it setting in a **spring of black muddy (or hot) water**. And he found near it a people. We (Allâh) said (by inspiration): "O Dhul-Qarnain! Either you punish them, or treat them with kindness."

5.1.2 INTERPRETATION OF WORDS

- "Sounding clay" symbolizes vibrating energy, resonating with the modern understanding of atomic vibrations.
- " Black Mud/An Altered Black Mud/Decayed Mud " parallels the transition of matter into concentrated state, Black Matter/matter in Black Hole/Singularity.
- E.g. Atoms (All visible matter, Human, Celestial Bodies etc) made from Black Matter/matter in Black Hole/Singularity

5.2 FORMATION AND ORIGIN OF THE PERIODIC TABLE ELEMENTS

The elements of the periodic table, from hydrogen to uranium, were formed through cosmic processes that span billions of years. Light elements, such as hydrogen and helium, originated shortly after the Big Bang, while heavier elements up to iron were forged in the cores of stars through nuclear fusion (**ALTERED//FERMENTED/MOULDED INTO/DECAYED**).

IRON, with its unique stability, marks the limit of energy-producing fusion in stars. Beyond iron, elements were created during supernova explosions—stellar cataclysms that disperse these elements across the cosmos. Some heavier elements were synthesized in neutron star collisions or through slow neutron capture processes in stars over immense timescales.

Remarkably, iron on Earth has extraterrestrial origins, aligning with Quranic wisdom. Surah Al-Hadid (57:25) states:

"And We sent down iron, in which there lies great military might and benefits for mankind..."

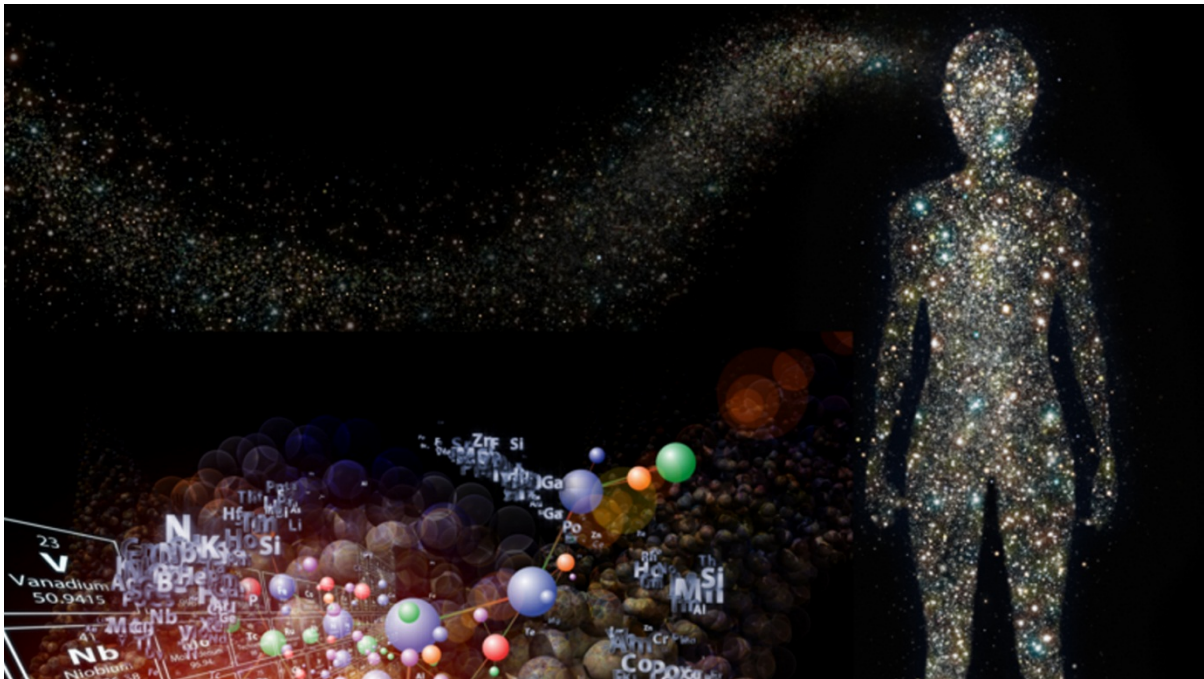
This verse metaphorically reflects the extraterrestrial origin of iron, corroborated by modern science, as meteorites delivered it to early Earth.

5.2.1 Example of Iron to show how specific is Creator's information and creation

- Iron is mentioned in Surah Al-Hadid (Chapter 57). The numerical (abjad) value of *Al-Hadid* is 57, aligning with the chapter number.
- The atomic number of iron is 26, matching the abjad value of the word *Hadid* 26.
- From the beginning of Chapter 57 to verse 25 (where iron is mentioned), there are 450 words, which matches the specific heat capacity of iron (450 J/kg·K).
- Iron is referenced 5100 verses into the Quran, corresponding to the 5100 kilometers depth at which the Earth's core, rich in iron, is located.

And now, the Quranic description of human creation in Surah Al-Hijr (15:26,28,33) by "مَسْنُونٌ" "ALTERED//FERMENTED/MOULDED INTO/DECAYED" resonates with the journey of periodic table elements (as it took long time of millions of years to make different types of elements in "periodic table" from which human body is made). The "مَسْنُونٌ" "ALTERED//FERMENTED/MOULDED INTO/DECAYED" symbolizes Earth's diverse elements, now known to form the atoms in our bodies. These elements are products of stellar processes, emphasizing their long cosmic journey before becoming part of living organisms. This connection underlines the Quranic and scientific harmony regarding the origins of matter and life.

OUR BODY MADE OF PERIODIC TABLE.

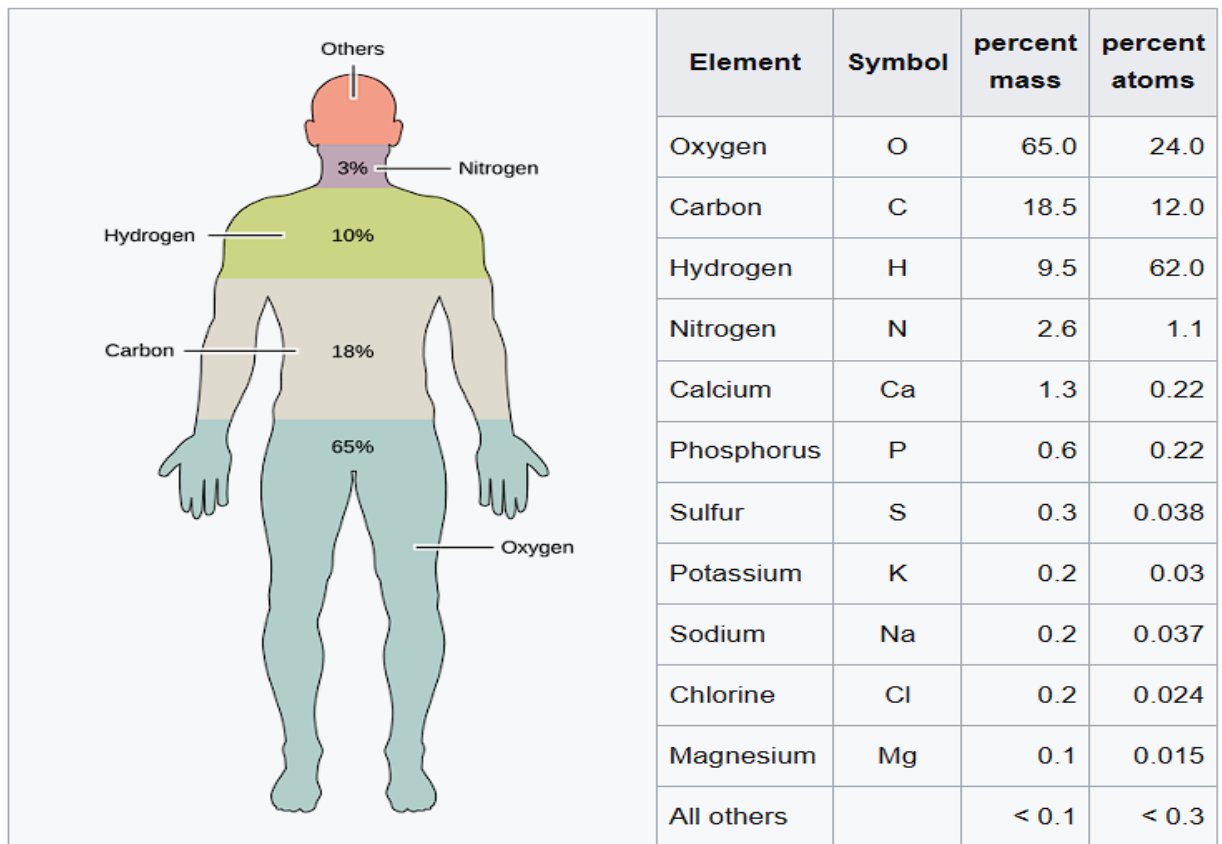


(Fig. 2)

The Periodic Table of Elements

scientificgems.wordpress.com

| | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------|-------------------------------|----------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|---------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|--------------------------|-------------------------|------------------------|
| 1 H Hydrogen | | | | | | | | | | | | | | | | | 2 He Helium |
| 3 Li Lithium | 4 Be Beryllium | | | | | | | | | | | 5 B Boron | 6 C Carbon | 7 N Nitrogen | 8 O Oxygen | 9 F Fluorine | 10 Ne Neon |
| 11 Na Sodium | 12 Mg Magnesium | | | | | | | | | | | 13 Al Aluminium | 14 Si Silicon | 15 P Phosphorus | 16 S Sulfur | 17 Cl Chlorine | 18 Ar Argon |
| 19 K Potassium | 20 Ca Calcium | 21 Sc Scandium | 22 Ti Titanium | 23 V Vanadium | 24 Cr Chromium | 25 Mn Manganese | 26 Fe Iron | 27 Co Cobalt | 28 Ni Nickel | 29 Cu Copper | 30 Zn Zinc | 31 Ga Gallium | 32 Ge Germanium | 33 As Arsenic | 34 Se Selenium | 35 Br Bromine | 36 Kr Krypton |
| 37 Rb Rubidium | 38 Sr Strontium | 39 Y Yttrium | 40 Zr Zirconium | 41 Nb Niobium | 42 Mo Molybdenum | 43 Tc Technetium | 44 Ru Ruthenium | 45 Rh Rhodium | 46 Pd Palladium | 47 Ag Silver | 48 Cd Cadmium | 49 In Indium | 50 Sn Tin | 51 Sb Antimony | 52 Te Tellurium | 53 I Iodine | 54 Xe Xenon |
| 55 Cs Cesium | 56 Ba Barium | 57-71 La-Lu Lanthanides | 72 Hf Hafnium | 73 Ta Tantalum | 74 W Tungsten | 75 Re Rhenium | 76 Os Osmium | 77 Ir Iridium | 78 Pt Platinum | 79 Au Gold | 80 Hg Mercury | 81 Tl Thallium | 82 Pb Lead | 83 Bi Bismuth | 84 Po Polonium | 85 At Astatine | 86 Rn Radon |
| 87 Fr Francium | 88 Ra Radium | 89-103 Ac-Lr Actinides | 104 Rf Rutherfordium | 105 Db Dubnium | 106 Sg Seaborgium | 107 Bh Bohrium | 108 Hs Hassium | 109 Mt Meitnerium | 110 Ds Darmstadtium | 111 Rg Roentgenium | 112 Cn Copernicium | 113 Nh Nihonium | 114 Fl Flerovium | 115 Mc Moscovium | 116 Lv Livermorium | 117 Ts Tennessine | 118 Og Oganesson |
| 57 La Lanthanum | 58 Ce Cerium | 59 Pr Praseodymium | 60 Nd Neodymium | 61 Pm Promethium | 62 Sm Samarium | 63 Eu Europium | 64 Gd Gadolinium | 65 Tb Terbium | 66 Dy Dysprosium | 67 Ho Holmium | 68 Er Erbium | 69 Tm Thulium | 70 Yb Ytterbium | 71 Lu Lutetium | | | |
| 89 Ac Actinium | 90 Th Thorium | 91 Pa Protactinium | 92 U Uranium | 93 Np Neptunium | 94 Pu Plutonium | 95 Am Americium | 96 Cm Curium | 97 Bk Berkelium | 98 Cf Californium | 99 Es Einsteinium | 100 Fm Fermium | 101 Md Mendelevium | 102 No Nobelium | 103 Lr Lawrencium | | | |



(Fig. 4)

6. SCIENTIFIC FRAMEWORK

6.1 FORMATION OF A DWARF, NEUTRON STAR, AND BLACK HOLE

6.1.1 White Dwarf:

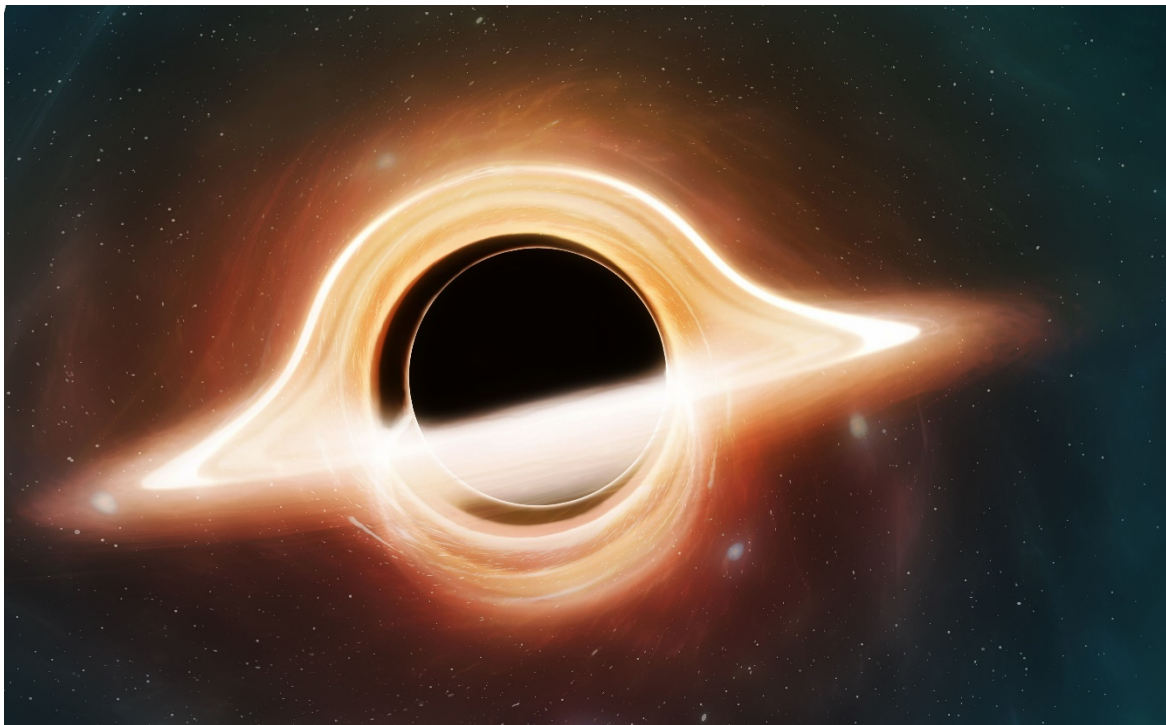
- i. **Formation:** When a star with a mass up to 8 times that of the Sun exhausts its nuclear fuel, it sheds its outer layers, creating a planetary nebula. The remaining core becomes a white dwarf, composed mostly of carbon and oxygen, supported by electron degeneracy pressure.
- ii. **Mass Limit:** A white dwarf cannot exceed 1.4 solar masses (the Chandrasekhar limit); otherwise, it will collapse further.

6.1.2 Neutron Star:

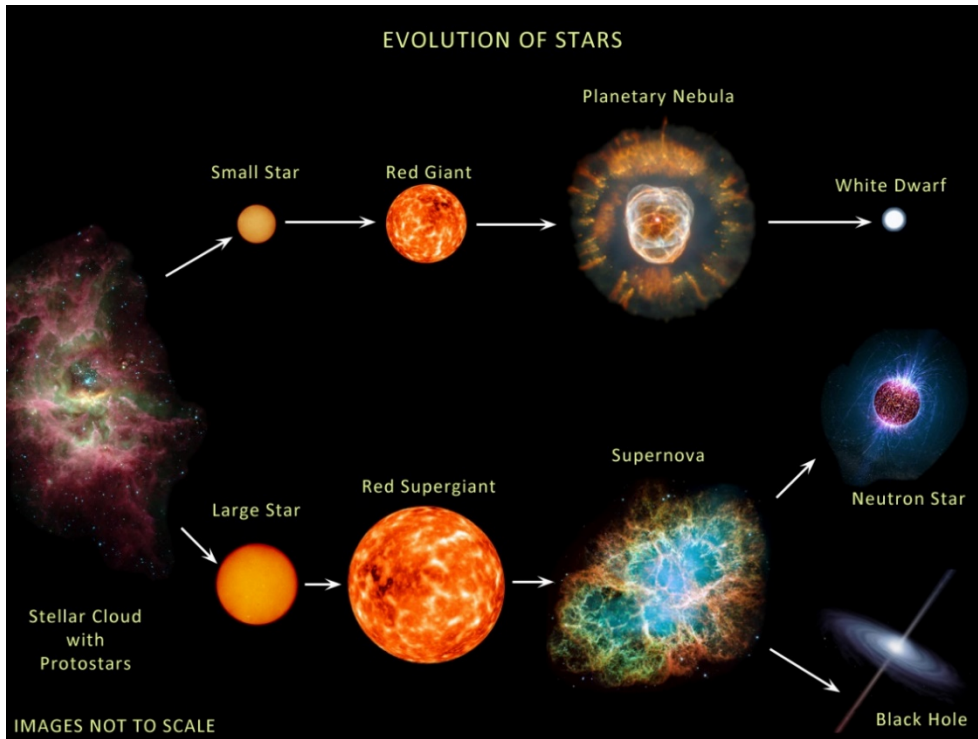
- i. **Formation:** When a star with a mass between 8–20 solar masses reaches the end of its life, it undergoes a supernova explosion. The core collapses under immense gravity, crushing protons and electrons into neutrons, forming a neutron star.
- ii. **Mass Limit:** A neutron star typically has a mass between 1.4 and 3 solar masses. Beyond this, it may collapse into a black hole.

6.1.3 Black Hole:

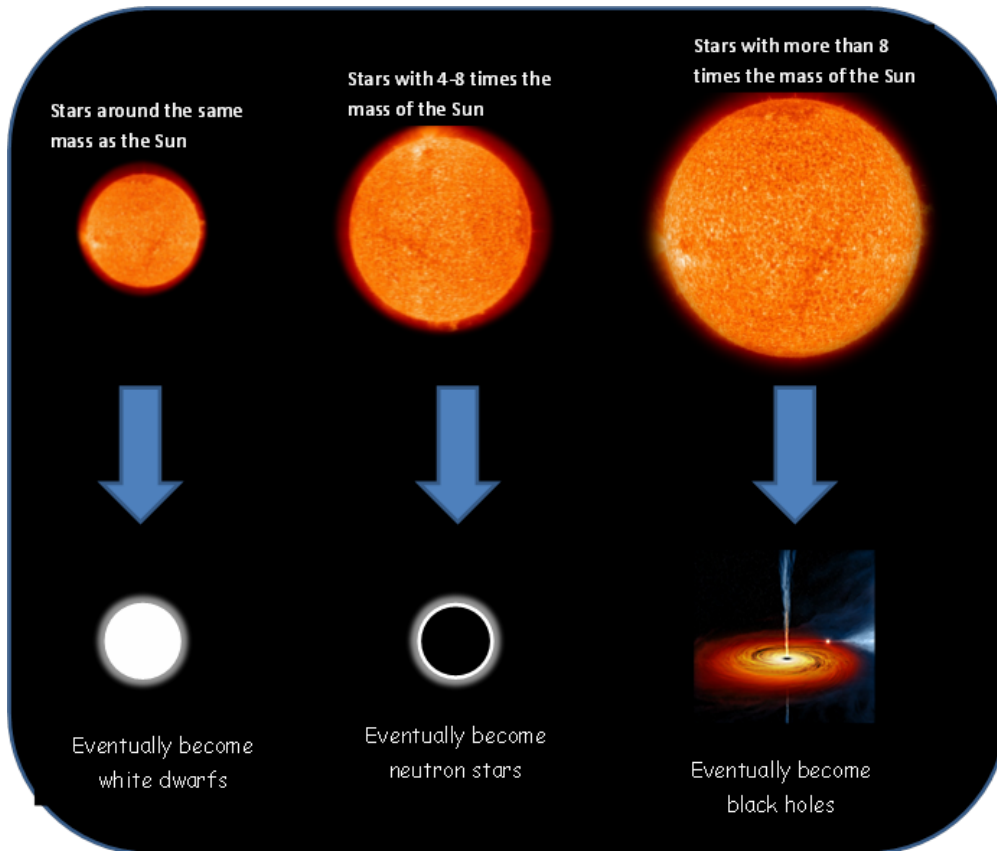
- i. **Formation:** A star with a mass greater than 20 solar masses ends its life in a supernova, and if the remaining core's mass exceeds the Tolman-Oppenheimer-Volkoff limit (around 3 solar masses), no known force can stop its collapse. It forms a singularity with infinite density, surrounded by an event horizon.



(Fig. 5)



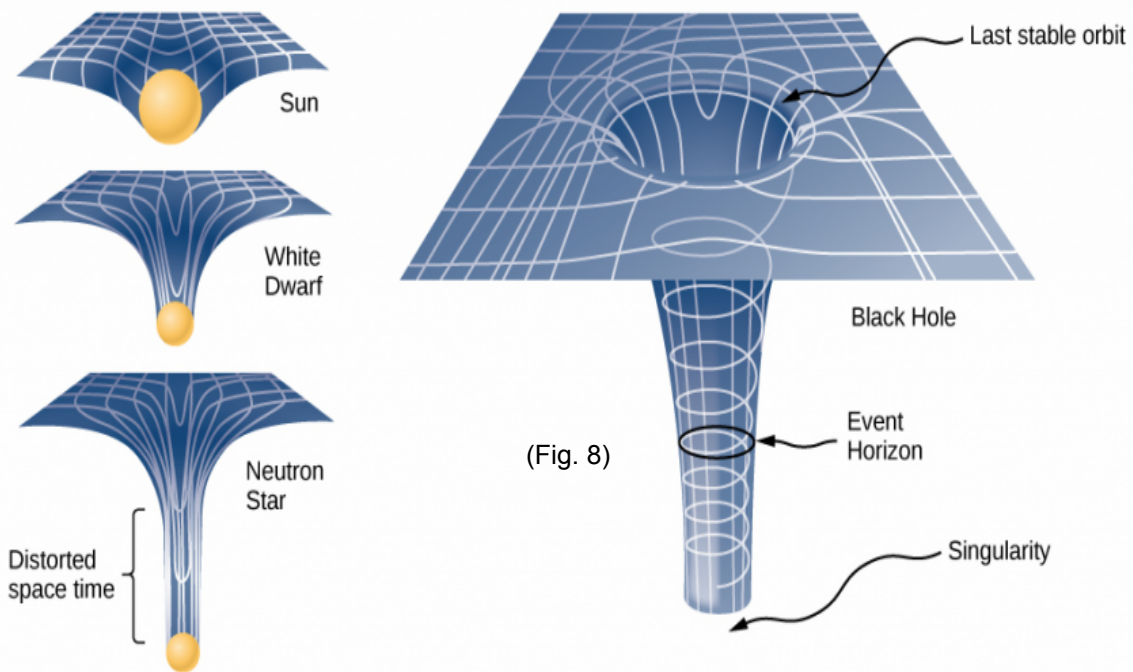
(Fig. 6)



(Fig. 7)

6.2 DIFFERENCES BETWEEN WHITE DWARF, NEUTRON STAR, AND BLACK HOLE

| Property | White Dwarf | Neutron Star | Black Hole |
|---------------------|--|--|--|
| Formation Process | Cooling core of low/medium mass star | Collapsed core of a massive star after supernova | Collapsed core of extremely massive star |
| Supporting Force | Electron degeneracy pressure | Neutron degeneracy pressure | No supporting force; complete gravitational collapse |
| Size | ~Earth-sized (~10,000 km diameter) | ~10-20 km diameter | SINGULARITY (EFFECTIVELY ZERO SIZE) |
| Mass Range | Up to 1.4 solar masses | 1.4–3 solar masses | Above ~3 solar masses |
| Escape Velocity | Below speed of light | Below speed of light | Exceeds speed of light |
| Surface Composition | Carbon and oxygen core | Neutrons | Event horizon, no physical surface |
| Energy Emission | Cooling radiations | Pulsar emissions (X-rays, radio waves) | Hawking radiation (theoretical) |
| Observation | Direct (light emission, spectrum analysis) | Pulsars, X-ray bursts | Gravitational waves, accretion disks |



7. SPACE COMPOSITION

The composition of the universe has been studied extensively, and the following percentages represent the constituents of space-time based on current scientific understanding, primarily from observations such as the

cosmic microwave background radiation, galaxy surveys, and studies of gravitational effects. The approximate breakdown is:

7.1 Dark Energy: ~68%

Surah Adh-Dhariyat (51:47):

لَمُوسِعُونَ وَإِنَّا بِأَيْدِيِنَا بَنَيْنَاهَا وَالسَّمَاءَ

“We built the universe with ‘great’ might, and We are certainly **expanding** ‘it’.”

- **Role:** Drives the accelerated **expansion** of the universe.
- **Nature:** Mysterious and poorly understood. It acts as a kind of anti-gravity, pushing the fabric of space-time outward.
- **Evidence:** Observations of distant supernovae and the expansion rate of the universe (Hubble constant).

But current study also says that there is no dark energy space time is expanding by unknown force.

7.2 Dark Matter: ~27%

Surah Al-Anbiya (21:16):

لَلْعَالَمِينَ بَيْنَهُمَا وَمَا وَآلَارُضَ السَّمَاءَ خَلَقْنَا وَمَا

"And We did not create the heaven and earth and that between them in play."

- **Role:** Provides the gravitational framework that holds galaxies and galaxy clusters together.
- **Nature:** Non-luminous, non-baryonic matter that interacts primarily through gravity (not electromagnetic or nuclear forces). Hypothesized to consist of particles like WIMPs or axions.
- **Evidence:** Observed through gravitational lensing, galaxy rotation curves, and the large-scale structure of the universe.

7.3. Visible/Ordinary (Baryonic) Matter: ~5%

- **Role:** Comprises all visible matter, including stars, planets, gas, and dust.
- **Nature:** Atoms and subatomic particles that interact through electromagnetic forces, making them detectable via emitted light or radiation.
- **Evidence:** Observed directly through telescopes and spectroscopic studies.

7.4 . Breakdown of Baryonic Matter (~5%):

- Stars: ~0.5%
- Gas in galaxies: ~0.5%
- Intergalactic gas (outside galaxies): ~4%
- Dust and other components: A tiny fraction.

This composition was confirmed by missions like **WMAP (Wilkinson Microwave Anisotropy Probe)** and **Planck Satellite**, which studied the cosmic microwave background (CMB), providing a precise measurement of these constituents.

8. BELOW ARE SOME RELATED QURAN VERSES

8.1.DARK/BLACK MATTER & DARK ENERGY & VISIBLE/ORDINARY (BARYONIC) MATTER

Surah Al-Anbiya (21:16):

لِغَيْبِنَ بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَاءَ خَلَقْنَا وَمَا

"And We did not create the heaven and earth and that between them in play."

Surah Sad (38:66):

الْعَزِيزُ الْعَزِيزُ بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَوَاتِ رَبُّ

"The Lord of the heavens and the earth and whatever is between them, the Exalted in Might, the Perpetual Forgiver."

Surah Ash-Shu'ara (26:24):

مُوقِنِينَ كُنْتُمْ إِنْ بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَوَاتِ رَبُّ قَالَ

"[Moses] said, 'The Lord of the heavens and the earth and whatever is between them, if you should be convinced.'"

Surah Maryam (19:65):

سَمِيًّا لَهُ تَعْلَمُ هَلْ لِعِبَادَتِهِ وَأَصْطَبِرْ فَأَعْبُدْهُ بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَوَاتِ رَبُّ

"Lord of the heavens and the earth and whatever is between them, so worship Him and have patience in His worship. Do you know of any similarity to Him?"

Surah Ar-Rum (30:8):

لِكْفُرُونَ رَبَّهُمْ بِلِقَاءِ النَّاسِ مِنْ كَثِيرٍ وَإِنْ مَسُمِّي وَأَجَلٍ بِالْحَقِّ إِلَّا بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَوَاتِ اللَّهُ خَلَقَ مَا أَنْفُسِهِمْ فِي يَتَفَكَّرُوا أَوْلَمْ

"Do they not contemplate within themselves? Allah created the heavens and the earth and everything between them in truth and for a specified term. And indeed, many of the people, in the matter of meeting with their Lord, are disbelievers."

Surah Al-Hijr (15:85):

الْجَمِيلِ الصَّافِحِ فَاصْفَحْ لِأَيُّنَا السَّاعَةِ وَإِنْ بِالْحَقِّ إِلَّا بَيْنَهُمَا وَمَا وَالْأَرْضَ السَّمَوَاتِ خَلَقْنَا وَمَا

"And We did not create the heavens and the earth and everything between them except in truth. And indeed, the Hour is coming; so forgive with gracious forgiveness."

8.2. BELOW ARE SOME VERSES RELATED TO BLACK HOLE, PORTALS, BIG BANG

○ **Surat Al-Anbiya' (21:30):**

يُؤْمِنُونَ أَفَلَا حَى شَيْءٍ كُلِّ الْمَاءِ مِنْ وَجَعَلْنَا فَتَفْتَقِنَهُمَا رَتْقًا كَانَتْ وَالْأَرْضَ السَّمَوَاتِ أَنْ كَفَرُوا الَّذِينَ يَرِ أَوْلَمْ

• "Haven't the unbelievers seen that the heavens and the earth were joined together (in one singularity), then we clove both of them a Sunder."

○ **Surah An-Najm (53:1):**

هُوَ إِذَا وَاللَّجْمِ

• By the stars when it/they fade away/ descends/ goes down to set/ setteth/ goes down (or vanishes).

○ **Surah Al Ma'arij (70:3):**

الْمَعَارِجِ ذِي اللَّهِ مَنْ

• from Allah, Lord of pathways of 'heavenly' ascent/ stairways/ ascending steps.

○ **Surah At-Takwir (81:15-16):**

بِالْخُنُوسِ أَقْسِمُ فَلَا

الْكُنُوسِ الْجَوَارِ

• "So I swear by the retreating stars, those that run [their courses] and disappear"

• Meaning of important word in this verse

- The "الْخُنُوسِ" (Al-Khunna) could represent celestial objects that retreat or become invisible.

- The "الْجَوَارِ" (Al-Jawar) emphasizes their motion or orbital path.

- The "الْكُنُوسِ" (Al-Kunna) highlights their ability to "sweep" or "pull in" matter, much like black holes.

Also can be understand like vacuum cleaner.

○ **Surah Al-Hijr (15:13-15)**

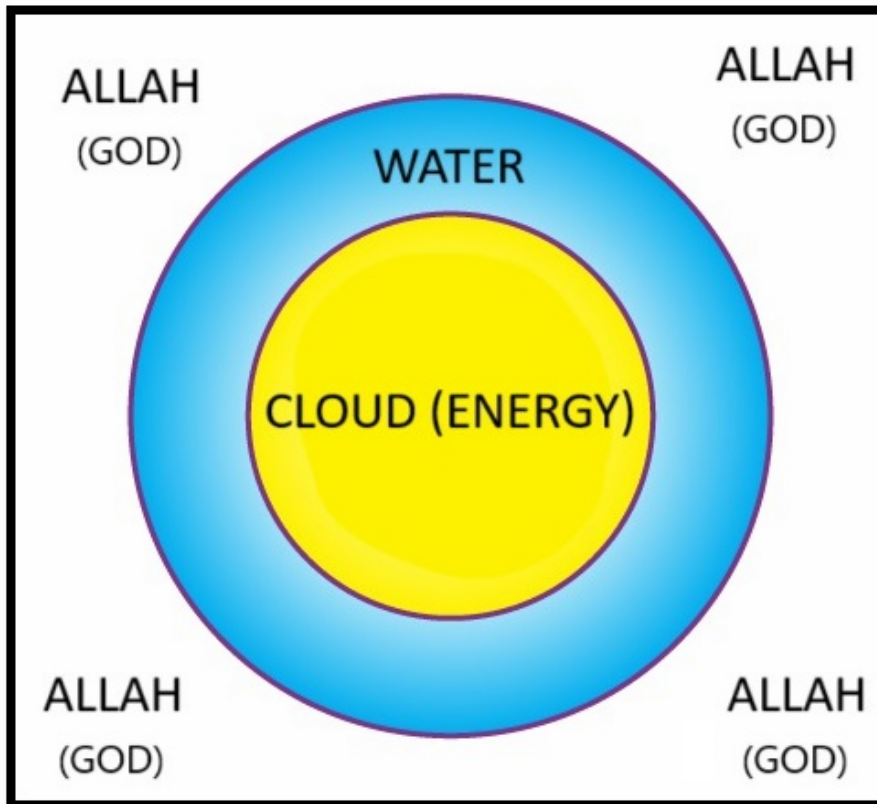
أَوَّلِينَ سَنَّهُ خَلَّتْ وَقَدَّحِيهَ يُؤْمِنُونَ لَا
يَعْرَجُونَ فِيهِ فَظَلُّوا السَّمَاءَ مِنْ بَابِهَا عَلَيْهِمْ فَتَحْنَا وَلَوْ
مَسْحُورُونَ قَوْمٌ نَحْنُ بَلْ أَبْصَرْنَا سُكَّرَتْ إِيْمًا لَقَالُوا

That they should not believe in the (Message); but the ways of the ancients have passed away and even if We opened a gateway into Heaven (portal) for them and they rose through it, higher and higher, still they would say, “Our eyes have truly been dazzled! In fact, we must have been bewitched.”

9.1 UNIVERSE STARTING

The Prophet was asked, “Where was Allah before He created His creation?” He said: “He was above the clouds, below which was air, and above which was air. Then He created His Throne above the water.” (Sunan Ibn Majah)

We are in centre part (energy cloud) and are part of this energy cloud (before Big bang) and when Sun revolves, it looks like that it is pointing its vector always towards the outer circle towards Allah, to do Sajdah continuously. It also appears that everything is doing same including earth.



(Fig. 9)

9.2 QURANIC LINGUISTIC ANALYSIS: "KULLUN FI FALAK"

The Quranic verse "Kullun Fi Falak" (21:33) translates to "Each [celestial body] is swimming in its orbit." The sequence of letters in the Arabic phrase—كُلُّفِيَالَك (k-l-f-y-f-l-k)—offers profound insights into the circular motion of celestial bodies:

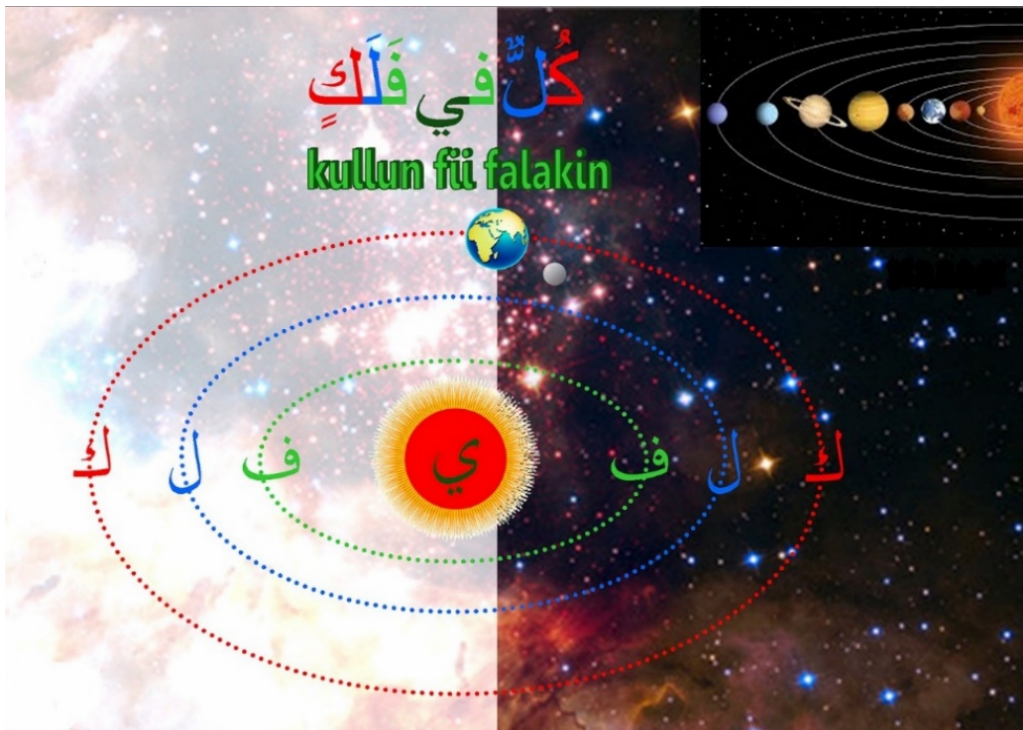
- The arrangement of letters mirrors the structure of orbits, with yā (ي) at the center, symbolizing a central point or axis, and other letters like kāf (ك) and lām (ل) revolving around it.
- The circular arrangement reflects the perpetual motion of celestial bodies described in the verse.

This linguistic artistry highlights the Quran’s precision in describing celestial mechanics, where the letters themselves align with the motions of objects in the universe.

We can comprehend now that this “swimming in its orbit” also may represent Dark/Black Matter/Dark Energy/Invisible matter.



(Fig. 10)



(Fig. 11)

10. COLLECTION OF RELATED CALCULATIONS AND DERIVATIONS (FOR REFERENCE)

Converting between baryonic matter (ordinary matter composed of protons, neutrons, electrons, etc.) and black holes (or singularities) requires understanding several complex concepts in theoretical physics. Specifically, we will look at the relationship between the two through the lens of general relativity and quantum mechanics.

1. Byronic Matter to Black Hole:

A black hole forms when a sufficiently massive object collapses under its own gravity, to the point where not even light can escape from it. The conversion from ordinary (baryonic) matter to a black hole can be understood through the following key factors:

Gravitational Collapse:

When a star runs out of fuel, it no longer has the thermal pressure to support itself against gravitational collapse. If the mass of the star exceeds a certain limit, the collapse leads to the formation of a black hole. This can be mathematically derived from the **Schwarzschild radius** formula, which defines the radius of a black hole's event horizon:

Schwarzschild Radius Formula:

For a non-rotating, spherically symmetric black hole (Schwarzschild black hole), the radius r_s of the event horizon is given by:

$$r_s = \frac{2GM}{c^2}$$

Where:

- r_s = Schwarzschild radius (the radius of the event horizon).
- G = Gravitational constant ($6.674 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$).
- M = Mass of the object that is collapsing (in kg).
- c = Speed of light in vacuum ($3.00 \times 10^8 \text{ m/s}$).

For a black hole to form, the object's radius must shrink within this Schwarzschild radius. If the radius of the object (like a star) is smaller than the Schwarzschild radius, it will collapse into a singularity.

Conditions for Formation:

The minimum mass required for a star to form a black hole after collapse is approximately:

- For stellar-mass black holes: Typically, a star with a mass greater than about 20-25 times the mass of the Sun may end up as a black hole after supernova explosion.
- For supermassive black holes: These form in the centers of galaxies and may be on the order of millions to billions of solar masses.
-

2. Singularity to Byronic Matter:

The "singularity" inside a black hole is where the laws of physics as we know them break down. It is defined as a point where the curvature of spacetime becomes infinite, and physical quantities like density and temperature also become infinite.

Conceptual Transition:

Converting a singularity back to Byronic matter isn't physically feasible with our current understanding of physics because:

- **Quantum Gravity:** We do not yet have a quantum theory of gravity, which is necessary to explain how matter behaves under such extreme conditions. The singularity represents a point where general relativity and quantum mechanics conflict.
- **Theoretical Attempts:** In some speculative theories (like loop quantum gravity or string theory), the singularity may not be an infinite point, but instead, it might represent a highly compressed state of matter or energy that could potentially give rise to new forms of matter or energy, but this remains speculative.

Hawking Radiation and Black Hole Evaporation:

One theoretical process where a black hole might "lose" its mass and potentially "transform" into other forms of matter is **Hawking radiation**. This process, proposed by Stephen Hawking in 1974, suggests that black holes can emit radiation due to quantum effects near the event horizon. Over incredibly long timescales, this radiation could lead to the evaporation of the black hole, eventually reducing it to zero mass, but again, this process doesn't return the matter to its baryonic form—it just turns it into radiation.

The rate of Hawking radiation is inversely proportional to the mass of the black hole: larger black holes emit much less radiation. The energy emitted could, in theory, be reabsorbed into the surrounding universe, but it does not transform into baryonic matter in a straightforward sense.

Thermodynamics of Black Holes:

The thermodynamic properties of black holes (entropy, temperature, etc.) are governed by the **Bekenstein-Hawking entropy**, given by:

$$S = \frac{4\pi k_B A}{l_p^2}$$

Where:

- S = Entropy of the black hole.
- k_B = Boltzmann constant.
- A = Surface area of the event horizon.
- l_p = Planck length (approximately 1.616×10^{-35} meters).

This suggests that information about the matter inside a black hole is encoded in its surface area, leading to what is called the **holographic principle**. The concept of information recovery or "converting" singularities into baryonic matter again ties into speculative theories like black hole information paradox and quantum gravity.

Summary:

- **Baryonic Matter to Black Hole:** Ordinary matter can be compressed into a black hole if its mass is sufficiently large and collapses within its Schwarzschild radius.
- **Singularity to Baryonic Matter:** No current theory allows us to directly convert a singularity into baryonic matter. Theoretical frameworks involving quantum gravity might offer insights in the future. But it has to happen/possible because we know singularity was made from **Visible/Physical/Baryonic matter**.

11. CONCLUSION

The document integrates Quranic verses, modern astrophysical concepts, and hypotheses to explore the transformation of visible matter into singularity, described as "**Black Matter**," (not Dark Matter) and its connection to the universe's deeper mysteries. Al-Hijr (15:26-29), Surah Ar-Rahman (55:14) describe human creation, invites us to seek knowledge reflect and ponder over Allah's signs in the universe and His divine attributes. This spirit of inquiry aligns with the hypotheses and concepts presented here.

Through the equations provided:

- **Equation 1, 2, and 3** affirm that physical matter, symbolized as "**SOUNDING (RINGING/VIBRATING) clay**" in the Quran, originates from a process deeply tied to energy and matter transformation.
- **Equation 4 and 5** further explain that this "**SOUNDING (RINGING/VIBRATING) clay**," or visible matter, is derived from an altered state of "**Black Mud/Altered Black Mud**" or "**Decayed Mud**," linking to

the idea of **SINGULARITY/BLACK MATTER**. This transformation represents the visible universe's creation from singularities as in Black Holes.

From these equations (current science/understanding) we know that **Black Holes forms when** visible matter compress into singularities, creating **SINGULARITY/BLACK MATTER** —a concentrated, ultra-dense form of existence. **If this process were reversed, it would imply that visible matter originates from such singularities or black matter.** This insight not only bridges Quranic metaphors with astrophysical theories but also strengthens our understanding of the universe's creation.

Quranic description of human creation in **Surah Al-Hijr** (15:26,28,33) by "مَسْنُونٌ" **"ALTERED//FERMENTED/MOULDED INTO/DECAYED"** resonates with the journey of periodic table elements (as it took long time of millions of years to make different types of elements in "periodic table" from which human body is made).

The story of **Dhul-Qarnayn** offers an intriguing layer to this hypothesis. Quranic descriptions of the "eye" or "spring" observed by Dhul-Qarnayn could symbolize a **Black Hole**—a celestial body with gravitational pull so immense that it draws in everything around it, including light.

The "wall" constructed by Dhul-Qarnayn might have been formed from materials akin to **Dark Matter** or substances beyond current human comprehension as Dark Matter, with its gravitational influence and cosmic shielding properties, aligns with Quranic metaphors describing Dhul-Qarnayn's barrier as a protective structure against Gog and Magog as Properties of Dark Matter, such as energy absorption and cosmic shielding aligns with the metaphorical descriptions in the Quran of barriers separating threats.

Additionally, the Quran invites humanity to ponder and reflect deeply:

"We will show them Our signs in the universe and within themselves until it becomes clear to them that this is the truth" (Surah Fussilat 41:53).

Through verses like these, Allah calls on us to embrace **tafakkur (reflection) and tadabbur (deep contemplation)** rather than rote recitation without understanding. By reflecting on the cosmos, the Quranic metaphors, and modern scientific discoveries, we move closer to comprehending the divine truths embedded in the universe.

In conclusion, this study bridges Quranic wisdom with scientific discovery, demonstrating how the Quran encourages exploration and intellectual inquiry. Allah's creation, from the intricate transformation of matter into singularities to the properties of black holes and dark matter, reveals His majesty. It underscores the need for humanity to continue delving into these mysteries with a spirit of curiosity, humility, and faith.

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13. NOTE

Created Terminology

1. **Creationology** (noun): The study or contemplation or Reflection or Pondering of the creation of the universe, particularly with the intent of understanding divine wisdom or the Creator's (Allah/GOD) work. It consists of everything including but not limited to Math's, Physics, Chemistry, Biology, Astrophysics etc. etc. (everything created by our creator).

I created this term as I didn't find any good wording in English to explain this concept.