Hologram Dark Energy.

Author: Dan Visser
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Abstract.

This article presents a formula for Hologram Dark Energy. This means that on one hand materialized reality (gravitation-holograms) and on the other hand four extra time-dimensions located within in the dark energy of vacuum (time-holograms) can be derived by one formula. The gravitation-holograms lead to quantum-dynamics, which in turn leads to Newton-gravity as part of an Einstein-space-time. The time-holograms lead to a subquantum-drive beyond Einstein’s-space-time’s. Basically this implies the acceptance of my new cosmological model: The Rotating Torus Hologram Universe (RTHU). The formula enables jumping into vacuum and popping-out again elsewhere in an Einstein-space-time. This happens in a different way than might be done by wormholes. The transformations by wormholes are dynamics by strong curvatures within an Einstein-space-time, but RTHU-time-holograms separate Einstein-space-time’s, whereby the RTHU is full of Einstein-space-time’s. Three out of four extra time-dimensions within the vacuum serve as a surrounding-time. The fourth one serves the control over the time-direction within the surrounding-time. The four extra time-dimensions are subquantum-time dimensions. That’s why this framework and dynamics give a new vision on the phenomenon UFO’s (Unidentified Flying Object). An UFO according to my formula is capable of moving in time-holograms in order to return to gravitation-holograms and materialized reality in the RTHU. Therefore UFO’s get another name, called IHO (Identified Hologram Object). However, in order to develop such a technology mankind must learn how to increase or decrease rotating-vacuum at small scales. That is the basic feature of the RTHU. This article explains the details of this vision by my formula for Hologram Dark Energy. The RTHU in itself is a rotating-vacuum instead of a Big Bang universe.

Short introduction.

We live in a “torus-world of time”. This torus rotates. So, the universe is a rotating torus. This replaces the Big Bang. So, the Big Bang is not the origin of the universe. The centripetal-acceleration of the torus gives the illusion of an accelerated-expansion as observed in the “Big Bang universe”. But all over the place-in the torus- the Big Bang-illusion is observable and like the rotation of the materialized world also vacuum rotates instead of an accelerating expandable vacuum in a “Big Bang-universe”. This vacuum is “special” and called Hologram Dark Energy. It is “special”, because the Planck-boundary is replaced by a hologram formula as part of the Hologram Dark Energy formula. So, the Hologram Dark Energy-formula is based on a product of two parts. The first part is a Hologram-Formula (Tdand), which is active through parameters for torus-rotation due to centripetal vacuum-acceleration. Thereby whole numbers (integers) serve control over the time-transformation from one Einstein-space-time to another. Furthermore Planck-energy is one parameter and the Newton-constant is a second parameter for the effectuation of gravity. Then there is the second part of the formula, which serves the amount of Newton-force distributed in a Planck-torus. Both parts of the formula give control over the rate by which a subquantum-clock enables to bypass Einstein-space-time and return to Einstein- and Newton-gravity again. But there is more: The derivation of the formula also shows how dark-matter is a force instead of standard-model-particles. Such a dark matter force is emergent, which means it is generated from beyond the classical Planck-boundary and which is in turn a part of the RTHU. Therefore the RTHU has no origin. Contrarily it suggests a Big Bang-illusion due to rotating vacuum. In handwritten pages several details explain how Hologram dark Energy opens-up insights about rotating-vacuum, which leads the way to a new technology to make travelling in extra-time dimensions between different gravitation-holograms possible. Moreover
it shows the details of a machine called IHO (Identified Hologram Object). We need technology to enter extra (subquantum) time-dimensions and have to learn how to construct a subquantum-drive, because just only a quantum-drive enables travelling by only the light-speed. So, basically rotating-vacuum is needed for an IHO-motor. The smaller the rotation-velocity is, the slower subquantum-time will pass and the stronger the adaption to an Einstein-space-time will be. Hence small whole-numbers represent a slower subquantum-drive-clock and larger numbers a faster one. That is what the first part of the formula does. The second part of the Hologram Dark Energy-formula is a Planck-torus. This is more like an energy-container for multiple amounts of Planck-energy distributed in the Planck-torus. So different Planck-energy-densities will be possible. This generates the strength of the Newton-force relative to the Newton-constant mentioned in the first part of the formula.

The author.

[1] D.C.M. Visser (ing), DAN, independent cosmologist and art-painter, born 1947, living in Almere, the Netherlands. The content of his articles aim to explain that we live in a "Hologram Universe". The Hologram Universe Rotates and has the shape of a Torus (Rotating Torus Hologram Universe). The RTHU replaces and embeds the classical Big Bang Universe, which means the Planck-boundary is replaced by a Hologram-formula and embedded in the RTHU. His in cascade-written articles mean that one article-result repeatedly served a new article and enabled interpretations about what dark matter and dark energy fundamentally is. His articles are hosted in the vixra-archive ‘mathematical physics’ and referenced as https://vixra.org/author/dan_visser.

Moreover he is an Art-painter too. His inspiration and creativity are rare due to his articles about the rotating Hologram Universe. His paintings may be an eye opener for collectors, musea and scientific institutions and are for sale. He painted in different styles throughout many years. He eventually attached the keyword "duonism" to his painting in order to refer the "duo-bits" in the Hologram Universe.

“Duo-bits” arrange the quantum-entanglement and are related to dark matter and dark energy in a new cosmological model - the RTHU. He derived the “duo-bit existence” in https://vixra.org/abs/1904.0552, wherein he divided the Schwarzschild-radius (event-horizon in blackholes) in small particles in order to make them part of the RTHU. However, the most important step was his starting-formula in 2004 wherein he mentioned a dark energy force as result from his thought-experiment (published in retro-spective in 2009 after being previewed by Christopher Forbes - PhD and FRAS in the UK. The thought-experiment served conservation of information (no information-loss in the universe) through dark matter force and dark energy due to bringing two blackholes together. Later on he came up with his Hologram-formula and abandoned the Big Bang as start for the universe.

Dan Visser’s website is www.darkfieldnavigator.com.
His email is dan.visser@planet.nl.
The derivation of Hologram Dark Energy leads to an expression for below the Planck boundary, which is replaced and embedded in the RTHU by a Hologram formula \( T_{\text{dau}}^2 \). It's parameters lead to specific dimensions!

The reference for the derivation is vixra.org/abs/1401.0166, which is an article that harmonized "seemingly dark matter" dimensionally with a "dark matter-force" and "dark energy" in the RTHU.

The two formulas in the reference article are combined, as follows:

\[
T_{\text{dau}}^2 = \frac{s_q}{n^2} \left( \frac{m^6}{s^4} \right)^2 \left( \frac{g_{\text{N}}}{G_{\text{G1}}} \right)^2 \tag{1}
\]

\[
Y = F_{\text{dau}}^2 = s_q \frac{F_{\text{dau}}^2}{n^2} \left( \frac{G_{\text{N}}}{G_{\text{G1}}} \right)^2 \left( \frac{m^6}{s^4} \right)^2 \tag{2}
\]

(1) and (2) combined gives Hologram Dark Energy (Y):

\[
Y = T_{\text{dau}}^2 \times n^4 \left( \frac{G_{\text{N}}}{G_{\text{G1}}} \right)^4 \left[ D_Y \right] \tag{3}
\]

The parameters for below the Planck boundary are:

\( 0 < N < 1 \) and \( 1^2 < l_p^2 \) which lead to \( D_Y \)

for \( l^2 < l_p^2 \) as follows:

\[
[D_Y] = \left[ \left( \frac{m^6}{s^4} \right)^2 - \frac{1}{n^4} \cdot m^8 \right] = \left[ \left( \frac{m^6}{s^4} \right)^2 - \frac{1}{n^4} \cdot s^4 \right] \quad \tag{4}
\]

An 8-D Surface flow per 4 Time dimensions to consider as subquantum-time upon quantum-time both in vacuum. (4D sqrt upon 2D sqrt).
Note 1: In earlier expressions of \( Y \) was mentioned \( Y \left( \frac{m^2}{s^2} \right) \). However, in this expression was no connection with the hologram-formula Toban.

Logically the crux is:

The \( Y \left( \frac{M^2}{s^4} \right) \) eventually exists in \( 6 \Delta \epsilon \), giving:

\[
Y \left( \frac{m^2}{s^2} \right) \cdot \frac{1}{54} \cdot 5^2 = Y \left( \frac{m^2}{s^2} \right) \cdot \frac{1}{54} \cdot 5^2
\]

Now the dimensional visualization can be done:

1) Due to rotation
2) Due to rotation

\[ \Delta \epsilon \]

\( (3 \times 4) \) cover a surface - flow

\[ \left( \frac{m^2}{s^2} \right) \]

leading to \( Y \left( \frac{m^2}{s^2} \right) \cdot \frac{1}{54} \) for

\[ \Delta \epsilon \]

due to quantum-time per

\[ \left[ \frac{s^2}{s^2} \right] = \left[ \frac{s^4}{s^4} \right] \]

The practical manifestation of the dimensional visualization is an \( \text{UFO} \), capable of going into vacuum.

The core remains free of \( Y \), but only quantum-time related (quantum drive).

The hologram-formula Toban defines the dimensional conditions to enter vacuum and come out! (See further Fig. 3)
The given page contains mathematical equations and diagrams. The text appears to be related to physics, possibly discussing gravitational or electromagnetic phenomena. Without clearer imagery, the specific content is difficult to transcribe accurately.
Explanation \( n^4 \cdot \left( q F_N^{G^2} \right)^4 \) dimensions.

\[(a)\] \[n \left[ \frac{1}{m^4} \right] \cdot \left( q F_N^{G^2} \right)^4 \left[ \frac{1}{m^2} \right] = \left[ \frac{1}{m} \right]
\]

An amount \( n \) of the Newton-force of a Planck-Surface

\[(b)\] \[n^4 \left[ \frac{1}{m^4} \right] \cdot \left( q F_N^{G^2} \right)^4 \left[ \frac{1}{m^2} \right]^2 = \left[ m^2 \right]
\]

An amount \( n^2 \) of the Newton-force of a Planck-hole

\[(c)\] \[h^4 \left[ \frac{1}{m^4} \right] \cdot \left( q F_N^{G^2} \right)^4 \left[ \frac{1}{m^2} \right]^2 = \left[ m^2 \right]
\]

An amount \( n^{-4} \) of the Newton-force of a Planck-Torus.

\[(d)\] is used in the formula for Hologram Dark Energy:
\[Y = \frac{2}{T_{\text{DW}}} \cdot n^4 \cdot \left( q F_N^{G^2} \right)^4 \left[ \frac{1}{m^2} \right] \cdot \frac{1}{S^4}
\]

The other options for \( T_{\text{DW}} \) will be explained in the next page.
The $T_1$ options to determine $[D_y]$ with Hologram Dark Energy ($Y$) are as follows:

(A) for $L^2 < l^2 \rightarrow Y \left[ \frac{m^4}{s^4} \right] \frac{1}{\lambda^2}$, which I have described already as UFO dynamics;

(B) for $L^2 = l^2 \rightarrow Y \left[ \frac{y^2}{s^4} \right] \left( m^2 \right)^2 \approx Y \left[ \frac{y^2 m^2 m^2}{s^4} \right]$

and is dimensionally visualized as follows:

![Diagram](image)

- $Y$ as an energy sphere (dark energy)
- $m^2 m^2$ as a torus (torus 1)
- $p \rho [s^4]$ which is equivalent to a double torus ([torus 1 and torus 2])
- torus 2 (dark energy)
- torus 1 (metrical torus)

The double torus is realistic, because it is about dark energy embedded in more dimensional time-vacuum. (ygt upon 2Dgt); Fig. 5.

In Fig. 4, torus 2 is still the energy sphere of a Planck hole which evaporates in a flash (torus 2).

(C) for $L^2 > l^2 \rightarrow Y \left[ \frac{(k^4)_{+}}{s^4} - (m^2)_{+} \right] = Y \left[ \frac{(k^4 m^4)}{s^4} \right]$

dimensionally visualized as follows:

- $\omega \left[ \frac{(k^4 m^2)_{+}}{s^2} \right]$ the quantum, micro and macro material
- $\omega \left[ \frac{(k^4 m^2)_{-}}{s^2} \right]$ gravity - world each per $[s^2]$ being quantum - time.
Hologram formula (DAN) is $T_{\text{dan}}$

The dimensional derivation of the Hologram Dark Energy formula used the derivation of the Hologram formula $T_{\text{dan}}$ as follows (dimensionally) according to $T_{\text{dan}}$ dimensions:

$$T_{\text{dan}} = \pm \frac{k^2_{\text{de}} \cdot E_P}{N^3 \cdot G} \cdot \Psi \left[ D_{T_{\text{dan}}} \right]$$

1. $D_{T_{\text{dan}}}$

   $$L > L_P \quad \iff \quad \Psi = 1 \quad \text{if} \quad G \neq 1$$

   $$\left[ \frac{m}{s^2} \cdot \frac{1}{G} \right] = \left[ \frac{m}{s^2} \cdot \frac{k}{s^2} \cdot \frac{m}{s^2} \cdot \frac{1}{k} \right] = \left[ \frac{k_g}{s^2} \cdot \frac{m}{m^2} \cdot \frac{1}{m^2} \right]$$

   $$(\text{two masses existing simultaneously per s})$$

2. $D_{T_{\text{dan}}}$

   $$L = L_P \quad \iff \quad \Psi = 1 \quad \text{if} \quad G = 1$$

   $$\left[ \Psi \cdot \frac{m}{s^2} \right]$$

   (Surface Energy acceleration)

3. $D_{T_{\text{dan}}}$

   $$L < L_P \quad \iff \quad \Psi = G \quad \text{if} \quad G \neq 1$$

   $$\left[ \frac{m}{s^2} \cdot \frac{k_g}{s^2} \cdot \frac{m}{s^2} \cdot \frac{m}{s^2} \cdot \frac{1}{k_g} \right] = \left[ \frac{m^6}{s^6} \right]$$
The $T_{\text{dom}}$-hologram-formula is based on to be a replacement of the Planck-constant ($h$), and which is embedded in the new cosmological model RTHU (Rotating Torus Hologram Universe).

Notes

1) Above the Planck-boundary ($l^2 > l^p$) rotation and velocity of particles exist as follows:

a) $h \cdot \Lambda c^2 \left[ (\gamma \cdot s) \cdot \left( \frac{m \cdot l^p}{s^2} \right) \right] = \left[ \frac{kg \cdot m^2}{s^2} \right]$  
(rotation of an energy density)

b) $\left[ \gamma \cdot s \cdot \frac{m}{s^2} \right] = \left[ \frac{kg \cdot m^2}{s^2} \cdot \frac{kg \cdot m^2}{s^2} \cdot \frac{1}{m^3} \right] = \left[ \frac{(kg)^2 \cdot m}{s} \right]$  
(velocity of mass-particles per s)

2) But for $l^2 = l^p$ the velocity disappears, remaining just only $\left[ \frac{(kg)^2}{s} \right]$ to be transformed to $\left[ \gamma \cdot \frac{m}{s^2} \right]$, which means particles become accelerating energy inwards the Planck-domain.

3) For $l^2 < l^p \rightarrow T_{\text{dom}} \left[ \frac{m^6}{s^6} = \left( \gamma \cdot \frac{m}{s} \right) \cdot \left( \gamma \cdot \frac{m}{s} \right) \cdot \frac{1}{kg^2} \right]$  
(duo: duo)  
(duo-bits torus)
6) Also follows for \( L = L_p \) the Planck-constant

\[
h = T_{\text{Planck}} \cdot \frac{\hbar^3}{m} \left[ y \cdot \frac{m}{S^2} \cdot \frac{S^2}{m} = y_S \right]
\]

This is relevant, because in the basic expression from the reference article vincent.org/abs/2001.0116 “Seemingly dark matter” is dimensionally expressed as \( \frac{1}{m^2} \left[ \frac{1}{m^2 \cdot s^6} \right] \), which implies \( T_{\text{Planck}} \rightarrow T_{\text{Planck}} \), and accordingly \( \left[ \frac{S^3}{m} \rightarrow \frac{S^6}{m^2} \right] \).

That explains \( S^6 \rightarrow \frac{1}{S^6} \), due to \( m^2 \), is located below the Planck-boundary \( L_p \).

5) Similar deduction confirms that \( k_{\text{ad}} \) in \( T_{\text{Planck}} \) is not harmonized for \( \left[ \frac{1}{m^2} \right] \), but it is in \( T_{\text{Planck}} \) by \( k_{\text{ad}} = \left( k_{\text{ad}} \right)^2 \).

6) It may be clear that \( k_{\text{ad}}^2 \) is the acceleration “inwards the Planck-surface” or “dew-bit-torus” and its value is \( 1.78 \times 10^{-14} \left[ \text{m} \right] \); the smallest experimental value is \( 5 \times 10^{-14} \left[ \text{m} \right] \).

Furthermore: \( E_p \) is the Planck-energy \( N \) is an whole number (integer) and \( G \) is the Newton-constant.
7. The $g$ is a gravitation parameter.
   For $\bar{g} = 1$ Newton gravitation is applied to quantum, micro-on macro
   scale in “seemingly” constant vacuum.
   For $\bar{g} = 6^{-2}$ Hologram gravitation is applied in $4D_{96}$, which means
   four sub quantum-time dimensions have to take into account for Einstein-
   gravitation (macro - space - time).

8. For the record: $N^6 = n^4$ in the Hologram dark energy formula. The rate of rotation is generated by $\frac{kde}{n^4}$ in $T^2_{dom}$, while $\frac{n^4}{N^6}$ (also a whole number) generates the amount of force of a Planch - torus (correlated to a non-existing Plack - boundary).

9. $E_p$ is distributed in the Planch - torus and causes a variable Planch - torus - energy.
   And due to $\frac{L}{m^p} \left[ \frac{1}{mg \cdot s^2} \right] = T_{dom} \left[ \frac{(m^6)^2}{s^4} \right]$ as in
   the basic reference article, the Hologram Dark Energy $(\bar{g})$ is a doubl - torus, which replaces the origin of the Big Bang into the RTHU.
NEW COSMOLOGY by D.C.M. Visser

New Universe Model: RTHU

No Big Bang - No Planck boundary!
New Universe Model becomes the RTHU (Rotating Torus Hologram Universe)
with Hologram formula (T_H) in my articles:

BB is illusion

Ultimate space-time curvature in the CCC demonstrates a term
ref: CCC

Von Neumann's formula in ccc or 'mask'!

CC is an unfinished model!

But rings in the CCC prove CCC hence RTHU

Everywhere you look a Big Bang (BB) is visible!

Hence the CMB is part of a rotational torus.

So, the rings of CCC are rotating (350 rings).

One ring fills the end of a former BB.

The CCC rings are overlapping due to rotation of the RTHU.

The BB age of 13.61 billion years changes in average 12.62 billion years!
10. Dark matter as fermions (normal particles) don’t exist. Dark matter force is described only exists hidden in a Planck torus, which is a 4D gyre domain in the RTMU.

In the RTMU there is no information-loss! described in my articles (visser.org/author/danvisser). This is shown as

\[ Y - F_{dm}^2 = 0 \quad \text{equal to} \quad F_{dm}^2 = 0 \]

where \( F_{dm} \) is a dark energy force (see thought-experiment) and

\[ Y = T_{dm}^2 \cdot n^4 \cdot \left( q \frac{F_{N}}{F_{N}^{G=1}} \right)^4 \]

According to dark energy

\[ Y = T_{dm}^2 \cdot n^4 \cdot \left( q \frac{F_{N}}{F_{N}^{G=1}} \right)^4 \]

Due to \( s \cdot F_{dm}^2 \) also causes

\[ \frac{q_{G=1} \cdot q_{N}}{L^2} \]

of Newton force on the Planck boundary.
11. Dark Matter force (as mentioned in point 10) is actually characterized as time-particles!
These have a sub quantum - origin as 4Dqt.
Rotating Vacuum generates large amounts of time-particles. These affect Einstein - Space - Time. In this respect galaxies do not comprehend dark matter fermions.

12. The Hologram Dark Energy-formula enables to understand in this respect what UFO’s are! UFO’s are IHO’s: Not Unidentified Flying Objects, but Identified Hologram Objects, which are capable of moving beyond the Einstein - Space-time through Variable - Time - Vacuum by Rotation (VTvr). This is explained in the next page in the context of gravitation. Holograms, Light hologram and time - holograms.
Black holes are not what it looks like. Neither are wormholes. Both compared to the time-transformation is the RTHU: The difference is curved space-time versus rotational-Vacuum with 4 dimensions. Sub quantum-time (4D_sqt). This marks the existence of gravity-holograms and time-holograms generated by the Hologram Dark Energy-formula (part 1 and part 2):

\[
Y = T^{\frac{1}{2}} \cdot N^4 \cdot \left( \frac{F}{N} \right)^{\frac{5}{6}} \begin{pmatrix} \frac{m_0}{5} \end{pmatrix}^{\frac{8}{5}}
\]

for \( l^2 < L^2 \) the Hologram Dark Energy \( Y \) is:

\[
Y = T^{\frac{1}{2}} \cdot N^4 \cdot \left( \frac{F}{N} \right)^{\frac{5}{6}} \begin{pmatrix} \frac{m_0}{5} \end{pmatrix}^{\frac{8}{5}}
\]

for \( 0 < N^6 < 1 \) kde is active as a rotational-time-amplifier due to whole numbers in \( T^{\frac{1}{2}} \) \( N^6 \neq N^4 \), \( N = \frac{1}{p^6} \); these parameters form a piece of the whole number clock.

\[\text{Planes: surface ("dual-bit")}\]

\[\text{2D}_{\text{sqt}} \]

\[\Delta \text{L} \]

\[\text{for time-transformation (variable)}\]

\[\frac{p \times (2D_{\text{sqt}})}{2D_{\text{sqt}}} = l^2 \text{ in the RTHU.}\]

"Duo-bits" represent quantum-entanglement of VTVK; this couples also "light-holograms to gravitation-holograms."