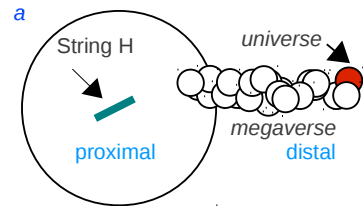


Running Title: **Scientists and Strings under Milk Wood**

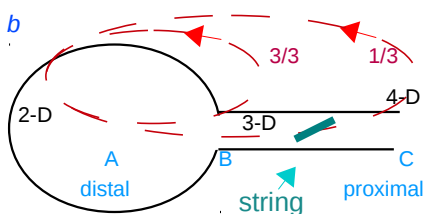
Abstract:

The role of the number 10, or something close to that, has been puzzling string scientists 2500 years ago*, and still puzzles string scientists today*. Here we show that this number is the result of expansion of string H* in a 4-D 3-Sphere* anti-space. By induction the negative 4-D surplus energy ΔH (1/3 of 4.18Calorie/Joule, $4/3 \times \pi = 4.18$) of string H is getting choked as positive 2-D energy in the expanding negative 3-D surface of Sphere. The choking process supports the existence of independent life* in the 3-D* surface, because string H reinvents itself by induction over and over again. Induction enables by logarithmic nesting the creation of natural building blocks, otherwise known as the ever lasting ideas of Plato*. These ideas got evolutionary momentum in 'sense making frames'*, which are obtained by conventional 3-D interference that supports Calorie/Joule energy exchange in the 3-D surface of the 4-D 3-Sphere anti-space. It reduces the 3-D surface of the 3-Sphere to a conventional di-electric 3-D point-volume* that allows string H to return to its initial state while escaping Poincaré's 'infinite recurrence' time*. Thus the problem with the number 10 arises when scientists in their 3-D environment interfere with the string activity activity in a 4-D 3-Sphere. By its ongoing disappearing and appearing string H furthermore is correlated to all facets of daily life, contaminating, for example, all scientific experiments. For these reasons it is impossible to get a hold onto the 'thing on itself' *.



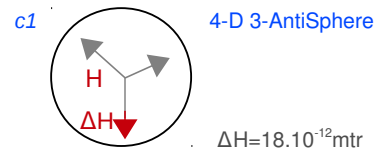
Introduction:

According to string theorists is our universe part of a distal megaverse* (a), which is generated by a proximal singularity or string H. The theory is successful in predicting gravity, however it does not clarify the origin of the string, let it be the generation of life. However, there has been ideas about it. For example a string must create living beings containing negative energy. These beings are moved in their 3-D environment by positive energy. Here we study the formation of living beings in the 3-D surface of an 4-D 3-Sphere that has been generated by string H (b). This allows life in 3-D to become reality when string H itself generates both negative 3-D energy and, by induction, negative 4-D surplus-energy in segment BC (b). Induction trans-locates the initial, proximal, string activity to distal segment BC. It is surplus 3-D negative energy (swelling capacitance C, Coulomb) in the closed 3-Sphere (anti space), which by an identity shift, shows up as 2-D current (sec/C), while choking, in now distal segment AB, as positive energy the 3-D remaining negative energy of string H (b). All thing considered nothing happens* in the 3-Sphere, however it is the time dependency of the choking process that generates in the 3-D surface the illusion of separated moving and changing* of a given volume. The 3-D space

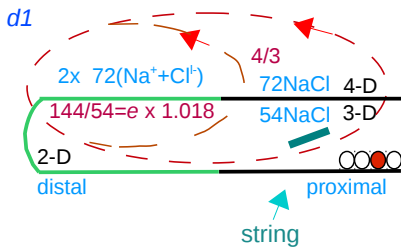


in and around the number 0 is, and remains, empty. The 3-D space furthermore belongs simultaneously to our conventional 3-D world and the 3-D surface of 3-Sphere. Induction therefore also generates the illusion that the string itself, now as distal 4-D ductus, can be moved with positive energy through time (b). An over and over itself inventing string solves the question about its origin, and it solves the question about the origin of time. Time is only present when 3-D interference, see below, with this 4-D string activity temporarily evokes the illusion of life*. The idea of a string as being an illusory 4-D ductus with time as 4th dimension furthermore is exactly what string theorists have in mind when they try to imagine the appearance of string H. Albeit without the redundant seven extra dimensions that still dominate their theory*.

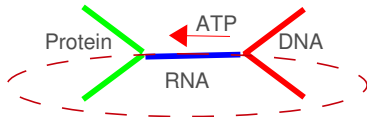
For string H to invent itself again and again in a 3-Sphere anti space the ratio $H/\Delta H$ must be unity in 3D. That condition is found when we imagine the string activity in the 3-D surface of 4-D anti 3-Sphere (c1), wherein ΔH opposes the emergence of the 3-D surface of the 4-D anti-3-Sphere. The 3-D space is therefore empty, not only before*, but also during expansion and disappearing of the string. String H generates 1/3Joule (C.mtr) negative 4-D surplus energy ($\Delta H=1/18 \times 10^{12}$), which subsequently as positive energy 2-D current (Coulomb, sec/C) chokes the arising 3-D surface (Calorie) of the 4-D 3-Sphere (c2). The negative 4-D surplus energy is 1/3 of 4.18 Joule/Cal ($4/3 \times \pi$)*. Thus, string H generates in the 4-D 3-Sphere anti-space volume equivalents of an H₂O molecule that get choked by equivalents of moles H. In this natural logarithmic choking process it appears that 1moleH (1gr) is equivalent with 1ml H₂O (1cal, c2). Maximally 15.10^6 (c3) each other repelling sub-spheres are getting generated, each of them having its specific position in the anti 3-Sphere. Mind the factor 10 that, due to the change of dimension, shows up in the



c2 $4/3 \times \pi = 4.18 \text{ Joule/Calorie}$ $1 \text{ cal} = 1 \text{ cm}^3$
 Surplus = 1/3 Joule/Cal
 $\Delta H/H_{3-D} = \ln(3/4 \times 1/2 \times 1.018)^{-1} = 1$
 $= \ln(3/8 \times 1.018)^{-1} = 1$
 $10 \times 1/6 \times 10^{-23} = 2 \times 5/6 \cdot 10^{-24}$
 $1/6 \times 18.10^{-12} / 5/6 \times 10^{-24} = 3.10^{-12} / 5/6 \text{mole}$
 c3 $n = 1/2 \times 10 \times 3.10^{12} / 10^5 \text{C} = 15.10^7$
 $(10 \times 96485 \text{C} \times 1.036 = 10^5 \text{C})$



d2 Another Feynman path integral

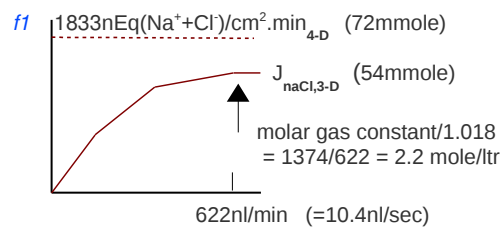


the universe proposed by Hume*. It enabled Schopenhauer*, following Kant*, to predict that our world is a product of our will and imagination. It means that our universe is an empty space* with the proceeding of time as illusion. That universe we will further analyze with the basal notion that the ' Thing on itself ' will be alien to us for ever*.

Material and Methods

String H is our 'material' and philosophy our method. How else could we imagine a string that appears on the very moment that it disappears. We also can say that the small embraces the huge* in this cognitive correlate of string H, and that explains why nothing can stay the same when it doesn't change completely now*. Physics and physical behavior are based on natural conventions in this 3rd road process*. Their values and manifestations are the result of experience in sense making frames. It is this natural, empiric, experience that enables string H to return over and over again to its original state*.

The ratio of conventional 3-D change of ΔH , caused by 3-D H in the 3-Sphere, $\Delta H/H$, unity (e1). The change requires an identity shift* because H cannot be where it is going to*, and the identity shift must make sense* because only afterwards* (ΔH is first) the ratio can be justified. Correlates of string activity as matter of convention* and intuition* therefore must be found in all aspects of daily life. They must be found in physiology, anatomy, chemistry, mathematics, sociology and physics. An example of a physiological identity shift is string H producing 1.83nl 2-D water (e3) that changes identity into 54mmol 3-D NaCl, subsequently into 2x72mmole 3-D $\text{Na}^+ + \text{Cl}^-$, and finally into 144NaCl (d1,e2). For physiologists these trans-substantiations don't make sense but they do make sense for rationalists* like us because the data readily fit into algorithm e2. This algorithm describes the deflation of string H as function of time into a 4-D anti-space 3-Sphere. The negative 4-D surplus energy (symbolized by charged ions) prevents, by induction, as positive 2-D ΔH energy the expansion of H in 3-D anti space. The 4-D ΔH -related deflation and the 3-D H-related inflation are together an adiabatic process. It means that in reality nothing happens in 3-D. Only the time involved in the adiabatic conversion is real. For example by 3-D interference with 0.833mole NaCl+glucose we stop** the process while getting the time-bound *illusion* that salt and water recirculate(33). Thus we are already in the time machine on which scholars love to speculate. Note that first 2-D NaCl, generated by 4-D $\text{Na}^+ + \text{Cl}^-$, as substitute for 4-D



f1 $1.018 \times 1/3 \cdot 10^3 \times 1.833 \text{nl}/\text{min}_{2-D} = 622 \text{nl}/\text{min}_{3-D}$

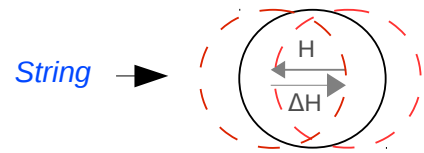
f2 $1.833 \text{ntrl}/\text{min}_{2-D} = 1833 \text{nEq}(\text{Na}^+ + \text{Cl}^-)/\text{cm}^2 \cdot \text{min}_{4-D}$

f3 $J_{\text{NaCl},3-D} = 3/4 \times 1.833 = 1374 \text{nEq}(\text{Na} + \text{Cl})/10^3 \text{cm}^2 \cdot \text{min}_{4-D}$

calculus ($\Delta H = 1/18 \times 10^{12}$ in an inverted 3-Sphere). Hence, singularity H therefore generated in the beginning of evolution potentially the symbols for 1 sun, 9 planets, 90 *natural** elements, and finally $30/2 \cdot 10^6$ substances. The latter number could be realized with 3 out of 90 elements ($1/3 \cdot 10^{-1} \times 90$) being isotopes. Altogether these symbols represent a 'sense making frame'. Note that we talk substances instead of universes like string theorists do. Because the sub-spheres are unique they generate the illusion of repelling each other, and therefore every symbol can be given a name only once* in a closed 4-D 3-Sphere. This name giving is matter of subsequent interference as shown in the following paragraph.

Interference is (here defined as) identity shift from vectorial (Joule) to scalar (Calorie) energy, necessary for continuation* of the saltator (=quantum based) proceeding of time in the 3-D surface of the 4-D 3-Sphere*. By interference all symbols in the 3-Sphere get, as anti-derivatives of 'water'*, their final and unique* sense*. Thus by interference we acquired as anti-sense image the illusion that attractive forces between planets, mass etc, exists. It strongly suggests that string H indeed created the illusion of a mechanical universe similar to

e1



e2 $\Delta H/H_{3-D} = \ln(54\text{NaCl}/144\text{NaCl} \times 1.018)^{-1} = 1$

e3 $\frac{1.018 \times 10 \times 1/6 \times 18 \cdot 10^{-12} \Delta H}{5/6 \text{pmolH} \cdot 10^3/\text{sec}} = \frac{1.833 \text{nl}}{5/6 \text{nmolH} \cdot \text{min}}$

e4 $27\text{Na}^+ + 27\text{Cl}^- : 540\text{NaCl} = 1:10$

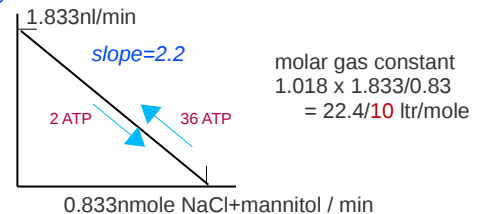
e5 $10 \exp(0.833) : 10 \exp(1.833) = 1:10$

e6 $0.567 \text{nMoleNaCl} + 0.267 \text{glucose} = 0.833 \text{nmole}$
 $27\text{NaCl} : 270 \text{glucose} = 1:10$

e7 $36 \text{gluc}/38 \text{ATP} = 1 + 1/18 ; 72 \text{gluc}(b1) \times 38 \approx e \cdot 10^3 \text{ATP}$
 (mw ATP-18) / mw glucose = $489.3/180.3 = e$

e8 $e \cdot 10^3 \text{ATP} \approx 2718 ; 2/3 \times 2.718/10^3 \approx 1.833 \text{nl}$

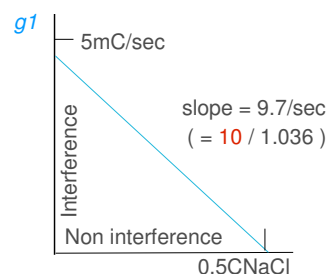
e9



ΔH induction, interferes, which in 10-log mode prevents swelling of the 3-D anti space (e5). This 10-fold 'deflation' is based on natural logarithm. The subsequent swelling of the 3-D surface requires an energy identity shift of 3-D glucose, driven by neutral NaCl (e6), to 4-D ATP ($\text{ADP}^+ + \text{P}_i^-$), which is a natural logarithmic process (e7). This transubstantiation* pathway, put together by logarithmic nesting, is known as Feynman path integral*. In the integral different processes are integrated into a single closed process. The transition of DNA to RNA to Protein (with factors 10, 54 and 144 included in the nucleosome (d2)*) is another example of such an integral path (d1,d2). Among many other things the integral is very useful to generate the illusion of 4-D ATP storage, bypassing NaCl and glucose. In cholera disease it causes an enormous stool water output ($e \cdot 10^3 \text{nl}/\text{cm}^2 \cdot \text{sec}$), which can be reduced a factor 1/3 with ORS back to normal (e8, see also results).

The concomitant molar gas constants of deflation and inflation in the 3-D

surface in the 3-Sphere must be time independent and they must have the same value, albeit with opposite dimension. The interfering NaCl+mannitol concentration in fig e9 is therefore a current rather than an osmotic gradient like biologists claim ('diffusion' is a nonsense thing). Although man likes to believe to live in a conventional 3-D space, it thus not exclude the fact that the molar gas constant (2.2ltr/mole, e9) of the deflating condition (the green section in fig d1) in the 2-D surface of the 3-Sphere must be factor 10 smaller than the molar gas constant of an ideal gas in 3-D (e9, textbook). It shows that our world indeed is composed by string H. For that reason the molar gas constant for the inflating condition, the red section in fig d1, must have the value 2.2mole/ltr and this is shown in fig f. In steady state string H must generate by induction the illusion of a 3-D water flow of 622nl/min in the 3-Sphere (f1), which is equivalent with the illusion of 54mole NaCl disappearing in 3-D (f3). The latter concentration shows up as 72mmole Na⁺+Cl⁻ in 4-D (f2,1), although multiplied by a factor 2 (see d1), because the string shows up again when it disappears. Thus by induction string H is able to interfere with itself.



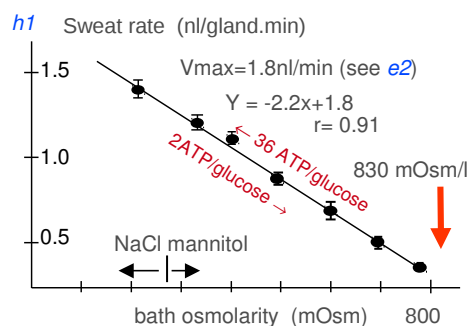
g2 $1/36 \times 10^6 \times 18 \times 10^{-12} = 0.5CH$
 g3 Faraday Constant_{4-D}
 $= 1.036 \times 10 \times 96455C = 10^6C$

Concomitant 3-D interference and 4-D induction are the worst that can happen to scientists because they prevent scientists to understand the "Thing on itself". Suppose in our "NaCl example" we like to stop the NaCl current, caused by string string H, in the 3-D surface of the 4-D 3-Sphere. It requires an instant surplus current of 0.5C(oulomb) to block the Na⁺ ($1/2 \times 1/3 \times 10^3$) and Cl⁻ ($1/2 \times 1/3 \times 10^3$) 4-D parallel surplus currents (g2). However, by sending the 3-D short circuit current we interfere in 3-D with a 4-D process which causes the apparent short circuit to increase with almost one order of magnitude (g1). This example also shows how life, the illusion of moving, is generated in the 3-D surface of the 3-Sphere*. Unfortunately the calculus shows that physicists and mathematicians present us a made up reality* with their home made physical constants. For example, it forces string theorists to include the bias of 9.65 in their calculations

(g3), and to speculate about 10 or 11 (0 included) dimensions*. It nevertheless doesn't prevent them to build wonderful careers like air castles* on quicksand. Our analysis shows that their data permanently are contaminated with string activity H, allowing physicists to create smaller and smaller phantom particles until the needed anti-energy for that someday will match with the energy of string H*.

Results:

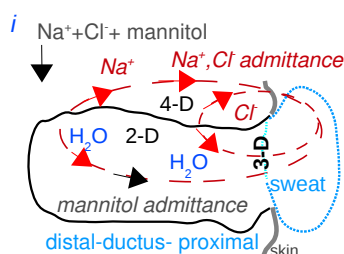
A string that invents itself over and over must find a correlate in all aspects of 3-D life. It was therefore a pity to see 30 years ago fig h felling dead from the press*. The figure is part of our first case (see below) showing that all beta scientific experiments are contaminated with string activity. That science is an outstanding example of sense making*. Knowledge of string theory is often sufficient to understand the outcome of an experiment.



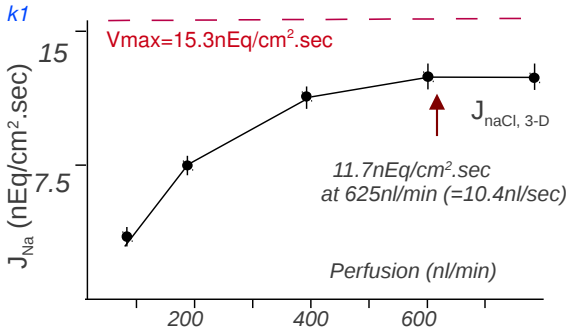
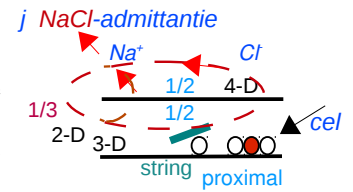
h2 $283(Na^+ + Cl^-) / 283mannitol = 2 ATP / glucose$
 $6Glucose \times 0.144NaCl / 1.036 = 834$
 $144(Na^+ + Cl^-) / 4mannitol = 36 ATP / glucose$
 h3 $0.540NaCl + 0.027NaCl + 0.267glucose = 0.833nmole$
 $= 1.018(0.033ngrNaCl + 0.048ngrGlu) = 0.083ngram$
 $0.833nmol (Gluc + NaCl) / 0.0833ngram$
 $= 10mole/gram$
 h4 $0.0267NaCl / 0.267glucose = 0.1$
 $10^{0.83} : 10^{1.833} = 1:10$

Case I The imagination of proximal activity of string H (d) is shown in figure h. It shows the sweating (nl/sec) of an equine sweat gland in relationship to the osmolarity of the bathing fluid, which normally is 280mosmol/ltr. The data strongly suggests that the sweating is an illusion induced by string activity H. Fig's h1 and e9 are basically the same. The illusion is complete when we take a look at the anatomy of this minuscule sweating duct (i), which looks like as

inverted anatomical correlate of the proximal string activity (see fig. a). Figure i schematically shows how sweat pearls appear at the orifice of the duct in the skin. As such the sweat pearls show a profound morphological resemblance with the sphere-shaped illusion derived of proximal string activity (b). Sweating and sweat rate are a blue print of the "water generation" (h1) of string H (e4). The combined morphological and physiological illusion caused by string activity is thus complete. From this moment on is everything that scientists tell about the process of sweating and related involvement of proteins in that process academically and based on afterward insight*. They make up their result by placing the experiment in a sense making frame* because basically nothing happens when the duct is sweating. This becomes even more apparent when we come to study the process of sweating in detail (h2-4, mannitol is a substitute for glucose). Then it appears that the maximal sweat secretion (1.833nl/min) basically independent is of any intermediate (Na, Cl, sugar) whatsoever. We are dealing with a real illusion produced by a string which constantly reinvents itself (e4). By interfering with Na⁺Cl⁻ or Na⁺Cl⁻+mannitol we discovered in those days 30 years back that NaCl appears in the sweat in the range between 0 and 575mosm. Above 575mosm is NaCl constant in the sweat and appears in addition mannitol in addition to NaCl*. This in itself is in the best Schopenhauer tradition* very suitable for a physiologist to get aggressive because they believe that 6 glucose molecules (38ATP/glucose, see textbook) are needed for the glycolyse (h2, 2ATP/glucose) or oxidative phosphorylation (h2, 36ATP/glucose), respectively, to transport NaCl. However, by interfering with NaCl and mannitol we block the activity of string H. Theory then predicts (fig d) that we have to first NaCl and then glucose to stop fluid secretion, and that the mole/weight ratio of the added compound must be 10 (h3). From a mathematical point of view shows this 'Feynman path integral*' that secretion is caused by a singularity and is not made up by different processes as physiologists want us to believe. The



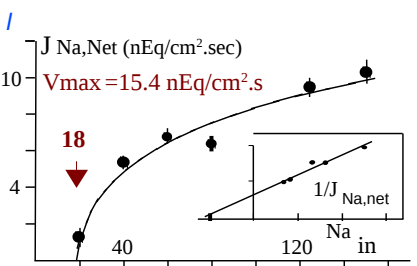
factor 10 is systemic in a closed 4-D 3-Sphere, and needed to enable the (apparent) exchange of numbers by (apparent) kinetic and caloric heat exchange in the 3-D surface. A final remark about the cells in the sweat duct. Secretion is associated with pressure increase in the ductal lumen. It generates the illusion that during secretion the cells are flattened out against the basal membrane of the ductus. However, these cells are absent as can be expected (a) when string H generates a solely a proximal Sphere. In the following example the illusion of cells is present, although sometimes it requires the inversion of an intact tissue like jejunum*.



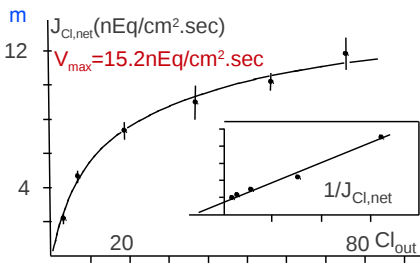
- k2 $1.833 \text{nl/min}_{2-D} \cdot \frac{1}{3} \times 10^3 \times 1.833 \times 1.018 = 622 \text{nl/min}_{3-D}$
 $V_{\max} = 1.833 \text{nEq}/2 \cdot \text{min} \cdot 10^3 \text{cm}^2 = 15.3 \text{nEq}/\text{cm}^2 \cdot \text{sec} (72 \text{mmole})$
 $V_{\max_{4-D}} = \frac{1}{4} \times V_{\max} = 3.8 \text{NaCl}/\text{cm}^2 \cdot \text{sec} (18 \text{mmole})$
 $V_{\max_{3-D}} = \frac{3}{4} \times V_{\max} = 11.4 \text{NaCl}/\text{cm}^2 \cdot \text{sec} (54 \text{mmole})$
- k3 $341 \mu\text{m}^2 / 297 \mu\text{m}^2 = 1.32$ ← duct
- k4 gas constant: $2 \times 11.4 (\text{Na}^+ + \text{Cl}^-) / 10.4 = 2.2 \text{mole}/\text{ltr}$

Case II Where time t there is also a stream of particles running from 4- to 2-D, apparently in 3-D and back again to 4-D (b,d). We recall that string H induces first negative 4-D capacitance, ΔH (the string disappears). By an identity shift ΔH gets choked as positive 2-D current into the negative 3-D surface of a closed 3-Sphere which is about to expand. As anatomical correlate for the study of the proximal, inductive activity of string H (segment BC in b) we choose the main duct of rabbit glandula mandibularis. This salt transport of this tissue is schematically drawn in fig j. The duct is a tissue with both ends opened (see also the black segment in fig. d1). The negative distal surplus ΔH energy is symbolized by a 'capacitive' Cl current through a Cl-channel. Following an identity shift it gets choked as positive Na⁺ current through a Na⁺ channel in the expanding negative Cl⁻ capacitance. The result is nett NaCl admittance (j). Every experiment is contaminated by string activity. Hence, by doing nothing at all we come to see a ductus as anatomical correlate with small cells distributed across the surface. Through the duct there is a continuous recirculation of 1833nl/min water (k2), 3/3 of it is in the 3-D lumen of the duct and 1/3 of the water content is in 4-D cells of the duct (k3). When we perfuse the duct with the standard given 144mmole NaCl solution (d2) we interfere with the existing string activity. We stop the recirculation of string activity and as result we must get the illusion of NaCl uptake (f).

The results are plotted in fig k1, the experiment is of 30 years ago. The experiment shows that our anatomical correlate (k1) and the image of string H are one and the same (f). The image of string H as presented to us by theorists* is nothing else but a tube with 3 dimensions with time (sec) as 4th dimension. Figure k1 yields 2 NaCl uptake rates: $V_{\max_{4-D}}$ (cells included) en $V_{\max_{3-D}}$. The ratio is 1:3 (k2) and this ratio is identical with the image of the duct as illusion. Hence, the calculated volume of the cells (j3) accounts for the NaCl admittance. A cell disappears and shows up per second (the gas constant is time independent).

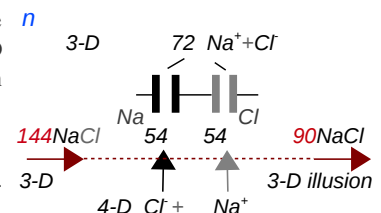


We studied the NaCl admittance 30 years ago further by maintaining the 3-D perfusion rate 625nl/min (=10.4nl/sec) identical with the 3-D flow activity of string H, while stepwise decreasing the Na (l) or the Cl (m) concentration in the inflowing solution. Also these experiments showed that the (apparent) NaCl admittance has nothing to do with all kinds of physiological transport proteins. The latter are confabulated by physiologist when framing their 3-D data. Our data show that V_{\max} of Na⁺ (+Cl⁻) uptake (l) as well as V_{\max} of Cl⁻ (+Na⁺)



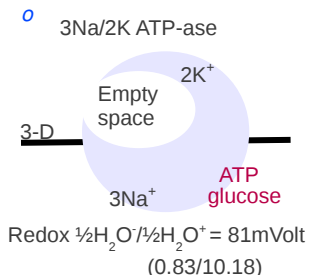
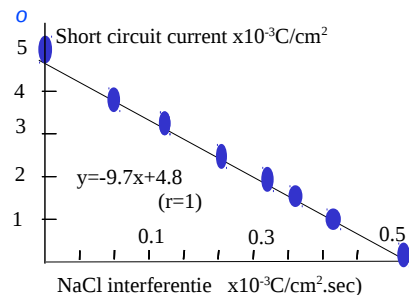
uptake (m) are identical, showing that only one driving force is involved in the kinetics. This V_{\max} furthermore matches with V_{\max} of string H, which suggests that string H is the driving force of 4-D Na and Cl uptake (l,k1). And, as predicted (see fig j), the activity of string H is determined by (i) the incoming Na concentration (Na_{in} , i) and outgoing Cl concentration (Cl_{out} , m) in the illusion. The apparently at 2 different places localized substrate specificities are due to the itself over and over inventing singularity H. Thus string H is also correlated to simple Michealis-Menten kinetics. Note the apparent increased 'affinity' (high affinity is due to charge in Coulomb) of Na⁺ for the transport system (abscissa intercept is 18mmole in fig k). It underscores the role of induction in the transfiguration process. It means that 18mmole 3-D Na⁺ and Cl⁻ (like all other polarized substances) are invisible in 3-D. The 18mmole

symbolizes the surplus kinetic 4-D energy of the string H. The NaCl "uptake" in the anatomical correlate of string H (j, rabbit salivary duct) has its counterpart in the double slit experiment of Young* (n). When the Na and Cl transition pathways in the duct (j) are symbolized Cl⁻ and Na⁺ channels (slits), respectively, it is not difficult to see in this figure that a 4-D "H₂O volume", representing caloric heat as driving force of string H, extinguishes while giving momentum to maximally 54mmole 3-D NaCl particles (k2) and 18mmole Na⁺ and Cl⁻ 3-D ions, when there is interference with 144mmole NaCl. Hence, polarized 'water' like light in Young's experiment extinguishes behind the slits.



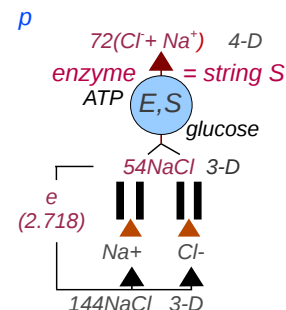
The apparent resorption of NaCl is accomplished by the extinction ratio on ratio of 10gramNaCl/moleNaCl (h3). Hence, the 3-D illusion of 90mmoleNaCl is, like an hologram, a frozen illusion*. In contrast, any 4-D interaction with 4-D string activity will, by means of

induction, yield a bias of almost one order of magnitude. We show it with an experiment of 30 years back. By measuring the NaCl admittance (per sec) of salivary duct we know at any moment the activity of singularity H (*m*). This electroneutral admittance is not sensitive to our interference with 4-D short circuit current, but the remaining string activity (per sec) will contaminate a short circuit current (*o*). The obtained data (*o*) are in concert with the theoretically expected data (*g*). Thus 4-D interaction with a 4-D singularity in a closed system will bias the results with almost one order of magnitude. As spin-off show these data that any biological membrane potential is generated by the investigator's amplifier.

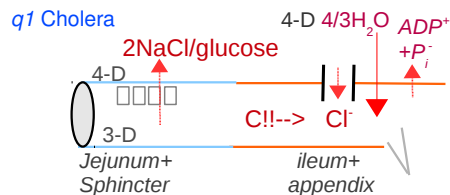


Case III A singularity that reinvents itself over and over again eventually also generates a physiological substance representing a correlate of the string activity itself, which is the ubiquitous enzyme 3Na/2K-ATPase* (*o*). The enzyme generates in an 'empty space' by induction the image of an equivalent shortage of positive charge. For example Cl^- , but beyond activation of the enzyme everything stays put, only time passes. Because Na^+ ions as stationary current (sort of capacitance) will get choked in an expanding negative Cl^- capacitance (sort of current). Hence, the choking process conserves the empty space, which enables singularity H to disappear and show up in a for a physiologist 3-D 'sense making frame'* *. The primary driving force in the 3-D surface of a closed 3-Sphere is therefore not the enzyme 3Na/2K-ATPase, but singularity H, which for example also generates the idea of the membrane potential, 81mV (*o*). Physiologists believe that this membrane

potential is due to logarithmic ion gradient set up by the enzyme*, which however is an illusion because it is string H that is sensitive to a 10-fold change in in the concentration of 3-D ions (*e4-6*), and string H. The sense making frame shown in fig *p* is the 3-D physical/physiological enzyme 3Na/2K-ATPase correlate of singularity H. It matches with the quantum mechanical slit model of Young* (*n*). This induction model of string H is very versatile to deceive the senses. For example, by mental aspiration ever in evolution the image of an intestine as inverted sense making frame may have come about. It could have come about by sensing or by framing because the 2 aspects require no specific order. However, the mode of operation is always the same: first the salt, and then, indirectly through ATP, the sugar (*h,p*, the enzyme requires ATP). The channels can be replaced by other 'proteins'. For example the Na-channel in the small intestine as anatomical correlate of string H was once thought replaced by a NaCl+glucose transporter. Thus not by a Na^+ /glucose exchange protein what biologists like to think because the the exchanger transports capacitance and the transporters transports moles. Hume* and Russel* understood way better than the biologists the complexity of induction driven sensing en framing. The model of the enzyme, as physiological correlate of singularity H, is further studied in cholera disease (next).



Casus IV As anatomical correlate for the intestine we take the model from figure *d*, turned inside/out and backwards. Furthermore we close the proximal part (jejunum) with a sphincter, and we open the distal part (ileum) with an appendix. And finally we replace the proximal Na channel by a Na/glucose transporter. We now have a model for cholera (*q*). We have chosen the model to show that all physiological processes are contaminated by activity of singularity H. Cholera, a disease of the small intestine, is characterized by extreme dehydration and energy loss. Victims of the disease may die within a day. Life and disappears first in the periphery of a victim, for example extremities, which can be expected for a path integral process. The integral loss of water is depicted in figure *p*. The (illusionary) Na^+ /glucose transporter is idle because NaCl is absent and Cl^- likes to move from 4-D as current (Coulomb) to 2-D, which is impossible. In this stationary condition string H starts to secrete an amount of 4/3 equivalents of 4/3 string energy H in

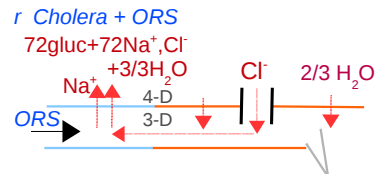


Coulomb. Thus in the periphery of the body ATP gets hydrolyzed while the energy leaves the body as (rice) water. A single 4-D ion has a capacitance of 10^3 C (*g3*). The turnover of ATP is in the absence of salt a natural logarithmic event (*e7,e8*), per round trip of string H the inability to transport glucose (*k2*) costs an energy equivalent of 2718 ATP molecules (*q2*). Exactly 10^3 copies ATP per second per nl (*q2*), are hydrolyzed in the periphery, with as consequence an enormous water loss in the gut. It is an illusionary water loss, we are deceived by our senses because our 3-D space is empty, and it will stay like that.

q2 round trip string H : 4-D \rightarrow 2-D \rightarrow 4-D
 $144 \times (18+1) \text{ ATP} = 2736 \text{ ATP} (=72 \times 38)$
 $2738 - 18 / 10^3 = 2.718$
 water loss: 2.718nl/cm².min

To compensate for the 4-D ATP energy loss we should interfere with an oral salt and sugar re-hydrating (ORS) solution containing 72mmole NaCl and 72mmole glucose per liter (*q*). The WHO/UNICEF organization recommends a similar ORS solution*. ORS without glucose stops the peripheral energy loss

and dehydration, but not the stool water output. This can be expected because the maximal water output is virtually insensitive to salt (and glucose, see fig. *h1*). However, the additional effect of 72mmole mmol glucose is a surplus reduction of the waterverlies met a factor 1/3 (*r2*), see also the WHO/UNICEF report*. It means the remaining water is an illusion generated by string H (*h1*). However, to see a result we have to add salt or salt and sugar, sugar alone won't do. String theorists invert the space to get their string theory elegantly to work. Biologist have to invert the jejunum if they want to see an effect of glucose. A better proof for the ubiquitous presence of string H will be difficult to find, or it must be the slit experiment of Young*.



r1 $2/3 \times (2736+18) \text{ ATP/min} \cdot 10^3 = 1.833 \text{ nl/min}$

Discussion:

The law of excluded middle* doesn't hold for string theory. String H disappears when appearing in the closed 4-D 3-Sphere, which shows that the adagio 'what is, is' of the stagirite and empiricists has no particular meaning. We have shown that the expansion of string H, as negative 'running capacitance' (C, energy) generates the amount of $4/3 \times \pi = 4.1888$ Joule/Cal.sec* (Bijman conjecture). 1/3 of this 4-D energy is feed back as positive energy 2-D energy, getting choked as 'capacitive current' in the 3-D energy of string H. Therefore nothing happens, only time passes by. But the over and over reappearing string creates a wonderful illusionary world because anytime it shows up it creates another illusion, for nothing can be given the same name twice**. Return of expanding string H in the closed 4-D 3-Sphere is forbidden by Poincaré's infinite recurrence theorem, simply because the 'numbers' don't fit anymore when returning. Thus actual return requires a mental 3-D interference in the 4-D Sphere which yields the illusion in 3-D that things can move because time passes by (see introduction), furthermore it presents the interaction between mind and substance*. However, more than an illusion it is not, because everything stays put*. The eternal space is, and remains an empty space. For example interference with a decreasing salt concentration freezes* the energy consumption (6 mmole glucose), interference with an increasing glucose concentration freezes the 4-D 54mole(Na⁺+Cl⁻) concentration (*e4,h3*). Due to 3-D interference in the 3-D surface of the 4-D 3-Sphere many physical constants are biased with a factor 10, or something close to that number. For example the molar gas volume is a factor 10 overestimated (*g,o*), the Faraday constant is a factor 10 underestimated (*g3*), and the factor 10 is synonymic with string theory. But also a time spiral helix pattern can be obtained as illusion in the point 3-D* dielectric. It requires an identity shift between mass and energy (information). As such the 'mass' of one strand DNA is multiplied by a factor 2 (*dl*), while the other DNA strand is seen as zero information frame. It gives molecular biologists the overall illusion that double strand DNA exists.

Our results are summarized in table *s*. Singularity H, coming to expression in the 3-D surface of a closed 3-Sphere generates an anti-space which is getting moved by a 2-D energy. In theory it generates 4.189Joule/Cal, which annihilates the empiric textbook Joule/Cal ratio (*s1*). H therefore doesn't move in this adiabatic process, which is underscored by the theoretical base value of this reverting (1/H → H) process. The base value differs with the empirical value of e with only 6 units in the 5th decimal (*s2*). Thus, natural logarithm is a phenomena in the empty space of singularity H that we come to know by sensing and framing. In other words we are familiar with natural logarithm because it correlates with the activity of singularity H, meaning here that in the empty space the potential formation of an anti-space afterwards becomes nullified (choked) by the kinetic mass of 1/3moleH (Joule). The correlation with singularity H basically means that singularity H nullifies all our efforts. The deficit of 6 'volume' units (*s3*) furthermore corresponds with the shortage of 6 'mass' numbers (*s2*). It creates a point-shaped dielectric zero space H, allowing H to become to expression again, although not before a final identity shift because we are still in the domain of the previous expression. The latter causes a continuation of time t. This continuous return* of H allows us to create a world according to our will and imagination*. Unfortunately for theorists and physicists causes the continuous return of H a bias in their calculations, due to logarithmic nesting (*s4*). The disappearing time axis in the 3-Sphere causes a bias of 10.18818181... (*s4*) or something close to that in the calculations of the scholars (math generates intrinsically its own empiric numbers). Its real value however is simply 10, mirroring the *potential* 10-log increase in 3-D surface anti-volume (anti-space, *e,h*). The bias is proven by calculating the 'real' and apparent molar gas volume. The actual molar gas volume is 2.2ltr (=2x(1+0.1)) in the 3-D surface of the closed 4-D 3-Sphere (*e,g,h*), however in the textbooks the molar gas volume is 22.414ltr. The increase is due to logarithmic nesting, allowed by the theoretical values of e (*s2*) and C (*s3*), differing each by 6 units from their empirical counterpart. The differences symbolize the return of the empty space (*s5*) wherein, after a change of identity between numbers and energy, singularity H is able to start a new cycle of activity, nesting its 10- and e-log activity as shown in *s4*. The ratio ΔH/H is therefore -1 (*s5*) in the 3-D empty space and the elegance of all this is that in the end also math has nothing to do with the 'Thing on itself*'. The world, and all there is, is an illusion. The nesting allows apparent temporal dissociation (hysteresis) of energy and numbers within the number zero. This nesting in the 3-D zero volume is the cornerstone of whatever fantasy world. A world that is getting framed by convention and sense making.

Nothing moves the eleatics* said and they were right. The idea of life is generated in a 3-D point dielectric vacuum of a 4-D 3-Sphere, when 'mass' is getting moved by mental interaction*. That is all there is*. The continuous activity of singularity H causes a priori contamination with any given experiment (see for example *s1-s4*). Every scientific explanation is therefore in conflict with reality. Due to this 'contamination' nothing is stable, disintegration and hysteresis are common manifestations of the continuous interaction. It does not only put the mathematics on the wrong track. It also delivers physicists more than 90 natural elements, molecular biologists 18000 genes, it delivers the physiologists also all kinds of everything. Illusions because nobody knows anything about the 'Thing on itself*'. Under Milk Wood* was written as answer to the first nuclear bomb trials which, thanks heaven, didn't end with a chain reaction. Probably because singularity H, characterized by its negative surplus energy, could reabsorb the generated nuclear energy. The final result of particle accelerator experiments will be different. Simply because of the energy to knock out the 3-D energy of singularity H causes the whole world to disappear in the generated reversed anti-space of string H. Llareggub these physicists* simply would be kicked out.

Jan Bijman

www.janbijman.eu/empty%20space.pdf

$$s1 \quad 4/3 \times \pi \times (-3.141592) = -4.189$$

theory: Cal/Joule = -4.189
empiric: Joule/Cal = 4.189*

$$s2 \quad 2 \times 4/3 \times (1.018 + 4/3 \times 10^{-3}) = 2.71822$$

theory $e = -2.71822$
math: $e = 2.71828^*$

$$s3 \quad 10 \times (1.036 + 5.10^{-4})/10^6 = 96479H$$

theory: 1coulomb = 96479 mole
empiric: 1mole = 96485 coulomb*

$$s4 \quad 0.018/2 \times 0.18/2 = 81.10^5$$
$$1.018 + 81.10^5 + 81.10^{-7} + \dots = 1.0188181\dots$$
$$10 \times 1.018818181\dots = 10.188181\dots$$
$$2.2 \times 10.188181\dots = -22.414ltr$$

theory: coulomb gas vol. = -22.414ltr
empiric: molar gas vol. = 22.414ltr*

$$s5 \quad \Delta H = 18.10^{-12}mtr, H = 18.10^{-12}mtr$$
$$H = 6\Delta H - 1 \text{ (empty space)}$$