

Looking into Universe. 2 2NdV.2_EN

2NdV.2_EN Looking into Universe. 2

Authors: brilliant predecessors in my interpretation. Composed by VVvv. Translated by Google translate, ran by VVvv. Thanks are given to professors Jiri Bicak and Michal Krizek.

Version Tenerife - Miraverde, November 22, 2021
Translated October 9, 2022

This version is the second part of a series of articles, which was created by extracting from the original zero version "02NdV1_EN Looking into Universe, Part 1" into a separate part. The effort was to systematically reach stages that would describe the consequences of using a simple model of closed space with constant curvature to describe observations in the space of the Universe as a whole. And order the consequences from simpler to more complex as I found them on my expedition to the distant Universe.

The [Abstract Looking into Universe.2](#) {2NdV.2A_EN} and [Summary Looking into Universe.2](#) {2NdV.2S_EN} are available for this work.

(Notice to reader: The timestamp of the parentheses tells me when the note was either created or reformulated. To keep the versions organized, if I change the text or image then I change the date of version by at least one day. The whole words written in capital letters are words from dictionaries, which I use in a specific meaning, and which I am specifying in my writings. The original files are in Czech, my mother language. If there are discrepancies between the translations, the version in the original takes precedence.)

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In the first part of Looking into the Universe, we didn't need any physics yet. We presented only the simplest geometric model of a curved 3D space that could capture Einstein's idea of the Universe as a self-contained space that must be curved in order to be closed.

We helped us by realizing that our observation in 2D space along the surface of a sphere is the same as in 1D space along a circle, so following a straight line would take us to the starting point from the opposite side. I just called that circle a [SUBSTITUTIVE CIRCLE](#) because it substitutes a straight direction in space with constant curvature. If a straight direction were to lead us back to the starting point from the opposite side even in some hypothetical constantly curved 3D space, our observation in it would also have to take place along SUBSTITUTIVE CIRCLES.

The light from the source at the actual location "S" would then have to travel to us observers at the point "P" along the surface of a geometrical figure which I have called "rugball" because its shape reminds us of a rugby ball constantly curved with the vertices "P" and "S", and which is created by turning the SUBSTITUTIVE CIRCLE around the connecting line "P-S", i.e. the secant of the circle. We are still only talking about geometry.

If such a model could be applied to our looking into the Universe, then it would begin to be physics.

But the universe cannot be exactly constantly curved, since unevenly distributed gravity precludes this. Tangential directions from "P" to the "rugball" surface, which would otherwise form an illuminated circle in the sky, would be reduced to discrete directions along which light would travel to us from apparent "Z" positions in the sky, and which would be arranged into a ring. The diameter of such a ring would increase with increasing distance from us to the observed light source "S", and its center would point to the hidden position "S".

If such rings could be found in the sky, then it would already be physics.

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On September 6, 2021, during my visit to Mr. Jiri Bicak, professor from the Institute of Theoretical Physics, Faculty of Mathematics and Physics, Charles University in Prague, I received a notice from him, for which I thank him. The so-called gravitational lensing (https://en.wikipedia.org/wiki/Gravitational_lens), which is said to have been predicted already by Einstein, is currently being confirmed by an intensive study of black holes in the Universe.

Local gravitational lensing occurs by the

curvature of space due to local strong gravity.

If the first consequence of the chosen model described in the first part is verified, then it could point to a similar global effect but caused by the

curvature of space due to weak global gravity that holds the Universe together.

The model-predicted multiple observations of objects in the Universe would begin to alert us to the possibility that observing of assumed unique objects may be just an optical effect of our observation. It could be some a kind of optical distortion, which for clarity I will call **“The First Optical illusion in looking into the Universe”**, to distinguish it from the other two, which I will be discuss in this second part.

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Along the SUBSTITUTIVE CIRCLE, we can express the observed distance from us as $z=R\cdot\varphi$, where R is the radius of curvature of the space [radius of the SUBSTITUTIVE CIRCLE] and φ is the distance along the arc of the circle measured in arc measure with the origin at our point of observation. And the speed of moving away (or moving closer) of fixed

points on the circle, for which ϕ is constant but only the radius of the circle R increases (or decreases), we can then write as the time change of the distance along the arc of this circle $dz/dt = dR/dt \cdot \phi$, and by marking dR/dt with the symbol ΔV_0 , as $\Delta V = \Delta V_0 \cdot \phi$.

A spherical coordinate system, in which the direction of observation is determined by the combination of two central angles, has proven to be advantageous for describing our observation. We also realized that all our observations seem to be projected onto a plane perpendicular to the direction of observation, which I call the PLANE OF OBSERVATION. And since we can generally do our observations in all different directions, we can replace this plane with what we call the OBSERVATION BUBBLE, which completely surrounds us as observers.

But our model ruled out the idea of an expanding space from some center of expansion to an increasingly distant and more expanded space. There is no **EXCEPTIONAL** place in our model where anything can happen differently than in other places. And this must also apply to expanding the space. The search for such a process, which would somehow describe the expansion of space, is therefore limited to the search for something that takes place in all places in the same way.

And that is exactly what we will be looking for in this stage. And also what consequences we would have to be aware of when looking into such a space by using our model to look into the Universe as a whole.

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In the previous stage, we examined a four-dimensional self-contained space, which appears to us to be three-dimensional, like some kind of mathematical or geometric model, if you like, in order to find out the consequences that follow from it. Now we are getting to the point on our journey where we are going to investigate whether such a model might be useful in modeling observations in the real Universe as it appears to us.

We will try to see the **consequences** of the **IDEA** if we were to use the constant curvature closed space model just described to describe the actual space in the Universe. That is, a 4D model that appears to us as a 3D space from the inside and where the **observed objects move away from the observer, and the farther the objects, the faster**. As **Edwin Hubble** tells us with the **discovery of the red shift** of light emitted from observed objects in the Universe.

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In any case, the interpretation of some “expansion” of the space of the Universe, where something constantly changing from a less expanded center with an extremely high density and temperature of matter should spread into an increasingly expanded space, such an interpretation is no longer possible. Our model requires that everything happens equally in all places, including the expansion of space. It is as if something is pushing everything from every point in every direction, to a greater and greater distance, and at the same time to a greater and greater past in our observation.

Exploring such an IDEA seems like an attractive possibility. Well, at least to me, so I couldn't help but follow such a trail.

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But if such an IDEA happens to be successful, then watch out. Let's not stop perceiving the IDEA as a model, and the model will always remain something other than what it models.

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To call the observed receding of objects in the Universe in our model the expansion of space would be “classical”, but dangerous, because the word “**expansion**” suggests something that has some center of expansion, i.e. that it also originated from somewhere, and that it has the front of the expansion, i.e. how far the expansion has reached. This suggests that it is some sort of ever-changing transient process that has its boundaries. Not a process that should be continuously the same in all places, equally ongoing, perhaps quite stable, almost stationary (?). And which, due to the distortion of our observation in curved space, only appears to us as a process of expansion in all directions from us. Although we ourselves do not think that we occupy some EXCEPTIONAL place in the Universe that should coincide with the center of such an expansion.

Therefore, it would be better to choose some names in English such as “**flatulence**”, “**swelling**”, or “**effervescence**” [CZ original: „**nadýmání**“, „**bobtnání**“, „**kypění**“], which would better describe such a process, a process that takes place in the same way in all places of space. In other words, it would capture that our observation of such a process from any point of our observation would have to be the same, equivalent. The same process must take place in each location. Surely no place in some space that is enclosed within itself

with [spatially] constant curvature can somehow be EXCEPTIONAL, so that anything can happen in it differently than in other places? That is inherent in that model.

I am still looking for a suitable English word that would describe it better. There can be no “flatulence”, no smoke is produced, no moisture supplied to make it “swell”, and no chemical reaction necessary for “effervescence” is produced. And yet, in order for the word to continue to be easily used, it should be easily translatable into foreign languages, easy to remember, and at the same time somehow convey that this kind of expansion is just a little different from the name expansion used so far.

I apologize for choosing an easy-to-remember name for such a process (perhaps with a bit of humor, :D) **ECSTASY** [CZ original: **EXTÁZE**, NL: **extase**]. In Czech, it is not far from **expansion** [CZ original: **expanze**]. And if it should meet with a lot of resistance, I will apologize again and withdraw it.

[20200901](#) >

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The recognition of the “expansion” of space in physics required that, by backward extrapolation, we necessarily arrive at the “beginning” of such an expansion, which we call the **Big Bang**. A kind of singular point and singular moment where and when it all started “from nothing”. Therefore, if we look into the past, then we must also come across the end of our view, or rather the beginning, when it all began. **Perpetum mobile** or **Perpetual motion** is excluded. That’s what physics teaches us. And now all of a sudden so much energy out of nothing, that would be a blessedly big exception, wouldn’t it? (Something like we know that stealing a little money is also something completely different than stealing the whole bank, :D).

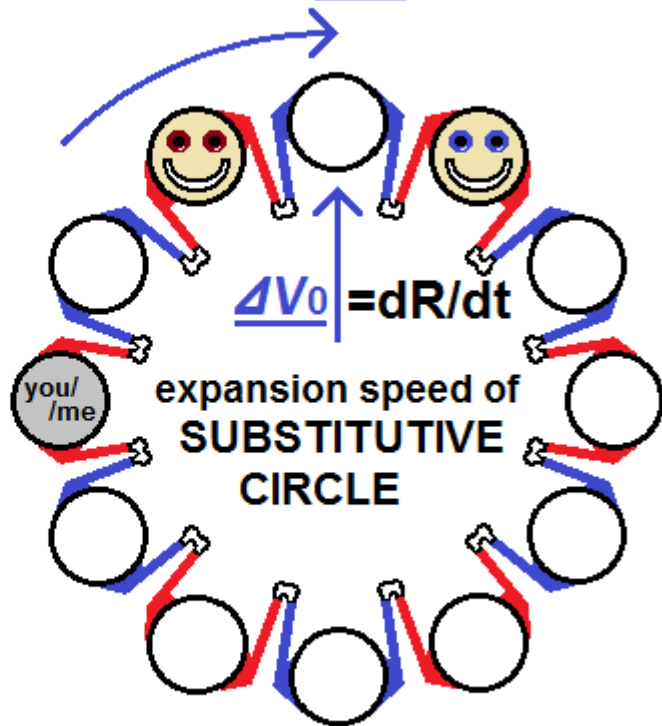
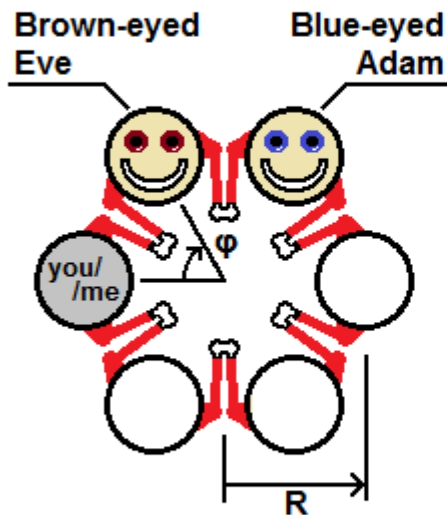
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But how can we imagine such a process, the same at every point? So that we can have at least some tangible IDEA of such an observed moving away, I would like to offer a suggestive image of a **SUBSTITUTIVE CIRCLE as a Circular Dance** [2NKjKT_EN]:

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observed speed of receding $\Delta V_\theta \cdot \varphi$



SUBSTITUTIVE CIRCLE as a Circular Dance

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In the left part, we can see schematically as if you, or I, were dancing in a circle next to the brown-eyed Eve and the blue-eyed Adam (with an apology: since I am a man, I chose a more attractive place for me closer to Eve than Adam :D) all in a red suit.

On the right part, other blue-clad dancers join the dance spatially evenly. It is easy to see from the sketch that Adam will move away from us faster than Eve (and we will also move away from Adam faster than Eve). Or to put it another way: The more distant dancers will automatically move away from us faster than the closer ones, even if their position angle φ on the circle has not changed.

The radius R of the circle is also marked on the left side, as well as how the angle φ is measured from us. On the right side, the increase in the radius of the circle is also marked, i.e. the expansion of the SUBSTITUTIVE CIRCLE. If the rate of expansion dR/dt is denoted by the symbol ΔV_θ , then the observed rate of receding along the arc has the magnitude $\Delta V_\theta \cdot \varphi$.

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< 20181202 The expanding circle of dancers in our image is reminiscent of Hawking's IDEA, presented in a popular science program¹, where the expansion of the Universe was simplified from 3D to 2D, as if created by the mutual "pushing" of objects into space.

The skaters on the ice surface were lined up behind each other in the shape of the three-pointed star of the Mercedes brand, leaning on each other and holding some kind of airbags between them. On command, the airbags began to inflate at the same time, so that by the expansion of the airbags, they began to push each other away, in such a way that during the contact with each other, the skaters further away from the center obviously gained a greater and greater initial speed. Then, when the skaters lost contact with each other, they continued to move away from each other by inertia alone. This is how the IDEA of the universe, which was created by an explosion called the Big Bang, became popular.

Skaters resemble our Circular Dance, but they are not the same. The movement of the skaters after the end of the airbag function is considered as inertia, whereas in the circular dance, the addition of dancers to each place continues.

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¹ This IDEA of Stephen Hawking is popularly and scientifically presented in the program called "Genius by Stephen Hawking".

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There, the expansion of space was perceived as an immediate activity that ended with an explosion, and further expansion continues only through the inertia of all objects that were set in motion by the explosion, and the farther from the center of the explosion, the faster. That is, not as some ongoing addition of dancers to the SUBSTITUTIVE CIRCLE, which they represent here, and which expands smoothly and evenly with the passage of time. 20210601
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But our model offers something else: If in our expression of the receding velocity $\Delta V = \Delta V_0 \cdot \phi$ the quantity ΔV_0 is **non-zero** ($\Delta V_0 > 0$), then with increasing ϕ the observed receding velocity will grow indefinitely. And for a sufficient distance ϕ from the observer, the observed speed of retreat will reach the limiting size $\Delta V_0 = c$, which I called the **LIGHT BARRIER**². I chose the name based on the "Sound Barrier", which has proven itself in

aviation, for example.

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Professor Bicak from the Charles University in Prague pointed out to me that what I call the LIGHT BARRIER could probably best be called the “cosmological horizon” in physics. I thank him for this notice.

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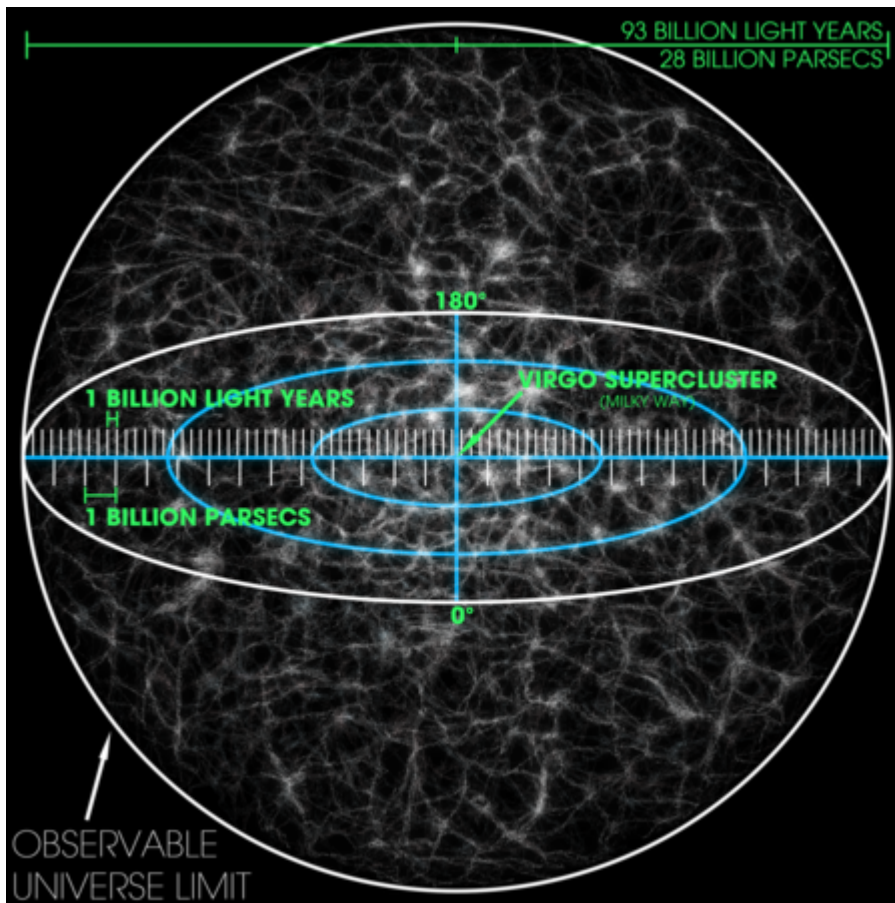
According to https://en.wikipedia.org/wiki/Cosmological_horizon, a **Cosmological horizon** is a measure of the distance from which one could possibly retrieve information. This observable constraint is due to various properties of [general relativity](#), the [expanding universe](#), and the physics of [Big Bang cosmology](#). Cosmological horizons set the size and scale of the [observable universe](#). This article further explains a number of these horizons ([1 Particle horizon](#), [2 Hubble horizon](#), [3 Event horizon](#), [4 Future horizon](#), [5 Practical horizons](#)).

But how does this measure of the observable Universe relate to the IDEA of the size of the Universe in contemporary cosmology? In search of an answer,

² < 20210520 I thank Professor Krizek from the Mathematical Institute of the Academy of Sciences of the Czech Republic for pointing out how he himself had already come across a calculation that considered a speed of retreat beyond the “horizon of the universe” greater than the speed of light c . Even a speed exceeding by a factor of ten! However, the presented model does not exclude the IDEA of observing movement through a closed space along the SUBSTITUTIVE CIRCLE multiple times repeatedly, and thus the speed of retreat increasing indefinitely. So after the first orbit, the observed velocity of retreat comes out as $\Delta V = 2\pi \cdot \Delta V_0$, and each subsequent orbit adds a $2\pi \cdot \Delta V_0$ increase to the velocity. Then it would be possible, at least theoretically, to consider a speed of, say, $10 \cdot c$. 20210520 >

I opened the article https://en.wikipedia.org/wiki/Hubble_volume. (I must point out in advance that by opening any article on cosmology one can see the enormous amount of work that has been done in it, and how many of our brilliant predecessors have participated in its research. Therefore, it is perhaps not surprising that any layman should lose track, what can cosmology even mean to him.)

The presented visualization of the entire observable Universe is interesting:



With description: Visualization of the whole observable universe. The scale is such that the fine grains represent collections of large numbers of “superclusters”. The “[Virgo Supercluster](#)”—home of Milky Way—is marked at the center, but is too small to be seen.

Since we, as observers, would observe the homogenous Universe equally deep on all sides, our position, our Earth, our Milky Way will of course be drawn in the center of the visualization. And what I call the LIGHT BARRIER, and here is called the Limit of Observable Universe, is shown here as an enveloping sphere. The same visualization is also presented at https://en.wikipedia.org/wiki/Observable_universe, specifying that the **observable universe** is a **ball-shaped** region of the **universe** comprising all **matter** that can be **observed** from **Earth** or its space-based telescopes and exploratory probes at the present time, because the **electromagnetic radiation** from these **objects** has had time to reach the **Solar System** and Earth since the beginning of the **cosmological expansion**. And data such as its **diameter $D=2R\approx 8,8\cdot 10^{26}\text{m}$** , and **volume $V=\pi\cdot R^3\cdot 4/3\approx 3,6\cdot 10^{80}\text{m}^3$** are added to the enveloping sphere.

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But this would mean that the propagation of light to the observer in a straight line is considered here. As if the light came to us not along an arc but along a straight line. Such a straight line is used here as the radius **R** to determine the **volume of the observable Universe as the volume of a sphere!** That would not respect Einstein's IDEA that the Universe should be considered a curved and self-contained space where light must travel to the observer along an arc? Does modern cosmology not respect this IDEA of Einstein?

If we observe everything along an arc in a curved space, and along a SUBSTITUTIVE CIRCLE in a space with constant curvature, then we spatially reach the place of the observer at a distance corresponding to the central angle of **2π (360°)**. And further beyond it, we would begin to observe everything again, as if in the "second round".

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But to describe such implications, I need to clarify a few general things first, so that I have

any chance of being understood and thus prevent an avalanche of protests from my advisers/opponents. Why does physics resist limiting our observation? I myself see the root cause in the convulsive effort to maintain **objectivity** in physics at all costs.

Apparently what happened was that we humans were pushed off the stage of physics and pushed into the auditorium. Yes, we can observe physics, and therefore the Universe, but only from the outside. We were “kicked” out of the Universe, and that’s exactly what I can’t come to terms with for the rest of my life. We forbade ourselves that people could threaten us somehow subjectively in physics. (And perhaps rightfully so, that they will start obstructing us even here, :D.)

However, our exile will accompany us in all the descriptions of my expeditions. Even in basic forms, such as here: How in what we think of as objective 3D space can we ever make each other’s **UNIQUE subjective 2D observations** of what we call objective reality? Or conversely: How can we even be able to create an IDEA of an objective 3D space from our individual subjective 2D observations? How could this be possible, when everything is moving away from every place by being pushed in all directions into the distance and also into the past, i.e. from the place where we are?

So, for example, from Adam, as in the picture **OBSERVATION BUBBLE in space 2 [2BPvp2_EN]** that I will present below, everything should be moving away from him into the distance and past, while Eve, who observes everything from a perpendicular direction, for example, does not observe any movement from Adam. She observes nothing at all. And also conversely, Adam observes nothing of the receding of everything into the distance and past from Eve. How is it that in such a space that runs away from us in all directions, we can even spot any 3D geometrical shapes with [mathematically] absolute precision?

< 20210115

But there is nothing to be surprised about. Since in our model the observed velocity of retreat is $\Delta V = \Delta V_a \cdot \varphi$, then mathematically, for an infinitely small $d\varphi$, an infinitely small velocity of retreat also results $d\Delta V = \Delta V_a \cdot d\varphi$. And physically, for the immeasurably small curvature of space $d\varphi \approx 0$, the speed of retreat from us must also be unobservable small $d\Delta V \approx 0$ (all geometric shapes become absolutely exact for the limit $z = R \cdot \varphi$ when $\varphi \rightarrow 0$). In other words, in our immediate surroundings, where the curvature of space is not yet observable, what I call ECSTASY cannot even be observable either.

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But lest anyone think that the consequence I am about to mention was just some isolated idea the morning after a night's wild dream, it is not, on the contrary. I've been looking for it for years, and diligently.

As an example, I will cite weeks of intensive collaboration with Dr. Josef Kajfosz, a scientist from the Institute of Nuclear Physics in Krakow, on one detail, as a result of his expert article "On the alternative interpretation of special relativity".

First of all, I must thank him for his patience in the intensive consultation and the effort he put into our cooperation. But working with Kajfosz was worth it. Although we actually ended up "crashing" when my colleague suggested ending further discussion, because we had reached a bulletproof, immovable "wall" in physics called the Twin Paradox. And I just cheered at the same moment, because I finally realized that we had hit the same wall, but both from opposite sides of each other (!!!!). This helped me realize the nature of the wall so much that I compiled a separate study for myself from my notes called Satellite Observations and the Twin Paradox 20181025 {2PSTP_EN} in an attempt to understand it properly.

Twin Paradox [https://en.wikipedia.org/wiki/Twin_paradox], as what it is about, I will describe it in a popular way, for example: Imagine that blue-eyed Adam would shoot brown-eyed Eve, not to the Moon (:D), but much further and faster, so that Eve would make a closed path through the Universe and return to us undamaged. And while Adam was still on Earth, our Eve traveled to a number of other places that are perceived in physics as certain **reference systems** [**EN: inertial frames. Kajfosz's terminology: State of Inertial Motion (SIM)**] and in which, according to the current accepted concept, the passage of time has slowed down in them compared to the passage of time on Earth, because they are in motion relative to the Earth. But this means that Eve will return to Adam younger than he is! Conversely, if Eve remained in one of those visited frames of reference and it was Adam who flew away from her to Earth and then returned to her, traveling the same closed path that she did, then it would be Adam who would be younger than her! However, the normal brain does not "take" this, hence the name Paradox.

Be aware, however, that in physics this is based on a certain physical concept, a certain set of **Postulates** as it is called, which we have worked on at the given moment through the gigantic efforts of a large number of genius predecessors.

And using the mathematical tools developed and left for us by countless genius predecessors, we can move from one concept to another, even if its implications sometimes don't work out for us.

In addition to all this, remember that our mathematical tools are so blessed that we can rely on them day and night. They link the two concepts to us so tightly bound, with such inherent certainty, that **EITHER** we must accept them both **OR** we must reject them both! This is ensured by the fact that the basis of all our mathematical tools is actually addition, in which I also include multiplication, as repeated addition³.

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I've already heard voices warning me that I'm using terms like "Twin Paradox" and "frames of reference" here without explaining how it actually relates to the "Looking into Universe" under investigation. This forced me to develop these follow-up compilations of my notes, that is, separate stages of Goulliver's journey into the empire of the giants, into the macro world, called "Looking into Universe".

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³<20210113 But beware: Only the kind of repeated addition that we can imagine, for example, as counting floor tiles in a rectangular room. After all, there we can start adding all the tiles in a row from one corner along one wall, and then repeatedly continue through the adjacent rows. Or repeatedly add up all the tiles in each column along the other wall.

This is, of course, different from the repeated counting of the votes of, for example, the US presidential election, when the repeated counting should lead to the same total of electoral votes, provided that they were not manipulated in any way in between. And this should lead to the legal election of the president with the accuracy of maybe one vote, provided, however, that all votes were obtained absolutely legally and also counted legally.

I will return to such situations in my articles on psychology, where I will hold up a mirror for us to realize the consequences of our actions. Fulfilling the above prerequisites can be very difficult if there are huge personal **SELF-INTERESTS** involved. And I will add to them **SHARED INTERESTS**, where we participate in the interests of a group of people who somehow cooperate, or collaborate, or at least identify with some group (-something like when we start to identifying with Republicans, for example, we stop identifying with the Democrats, and vice versa-) 20210113 >

And now I will tell you the consequence for which we were preparing everything. 20210113
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We have prepared it to try to continue now, I hope successfully. So in mathematics, which rests in its foundations on the certainty of addition, **$1+1=2$** must be absolute truth (already because we mutually agreed on it :D).

But then at the same time it must be true that **$2-1=1$** ! This results from one Boundary condition of our **CONSCIOUS THINKING** in my terminology called, for example, **"EITHER/OR"**. And this causes us to either accept $1+1=2$ and at the same time $2-1=1$, or we have to reject both at the same time. Corresponding consequences are accepted or excluded more easily in mathematics, but in physics it can be considerably more difficult.

So now to the point: The Twin Paradox arose in physics in parallel with two different views. One according to the IDEAS created for us by **Albert Einstein**, which excludes the existence of any EXCEPTIONAL frame of reference in the Universe. All systems must be equal to each other, none must be EXCEPTIONAL.

And the other view according to the IDEAS made for us by **Hendrik Lorentz**, in which it is required that there should be at least one UNIQUE frame of reference for us in the Universe in that it would be possible to relate to it our IDEA of relativity.

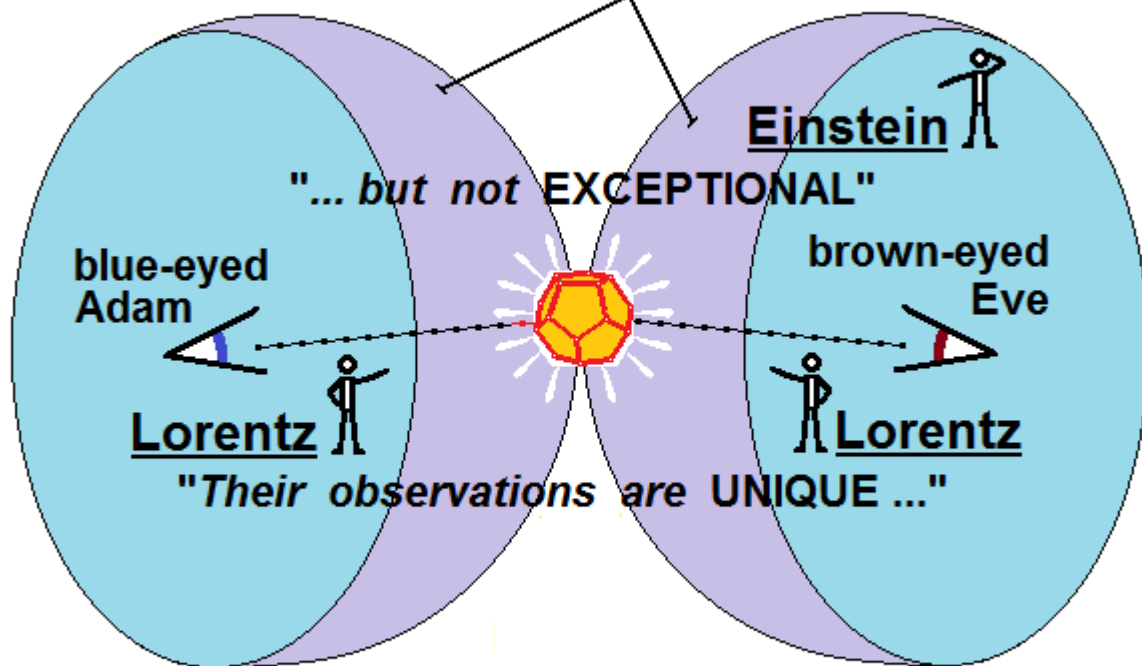
And precisely in our described **IMAGINATION**, in our model, we actually already managed to separate the local system in which each of us subjectively looks into the Universe (see, for example, the already presented picture **SPACE 4D [2P4D_EN]**) from the system of the entire objective curved space with constant curvature.

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I will try to make it more visible with the help of an image that I derived from the original image showing how the brown-eyed Eve and the blue-eyed Adam observe the same object, perhaps a jewel, as if at the common point of their **OBSERVATION BUBBLES, and which I called OBSERVATION BUBBLE in space 2 [2BPvp2_EN]**:

their OBSERVATION BUBBLES



OBSERVATION BUBBLE in space 2

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I added to the picture how for each observer the observation is UNIQUE according to Lorentz, but at the same time none of them are EXCEPTIONAL according to Einstein. We actually proved both of them right. But what did we achieve? Did we eliminate the Twin Paradox? No, we didn't create it at all.

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Am I the only one who somehow noticed such consequences of such a model? Consequences if we consider the Universe as a closed curved space? Or am I the one who really went crazy? I always remember a joke I once heard: "Grandma and grandfather are driving on the highway. Grandma turns on the radio, where they announce: Attention, we have a report that there is one car going in the opposite direction on the highway between places "A" and "B". And the grandfather said: How come, one car, all cars!" □.

< 20201008

We have shown that the speed of retreat observed in the Universe is automatically a direct consequence of the increasing distance of the observed objects from us in our model. The receding speed is represented by the increasing angle φ , but only when **ΔV_θ is not equal to zero**. If **$\Delta V_\theta=0$** , then there would be no increase in distance.

In other words, **$\Delta V_\theta = dR/dt$** is the speed of ECSTASY, which we must take to be non-zero and the same at every point of the observed space with constant curvature. Then **$K=\Delta V_\theta / c = \text{Constant} > 0$** applies spatially. That is, a dimensionless constant, where c denotes the speed of propagation through space, for example of light (or electromagnetic waves in general), gravitational disturbances, changes in the distribution of energy in space, etc., as the last constant, when modern physics has already taken away Newton's unchanging passage of time and the unchanging dimensions of space.

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In order to avoid repeatedly enumerating what all in the current concept of physics propagates at that speed c , without omitting some others, I will therefore introduce the more general name **INFORMATION** for them. I choose this term because, whether something is spread by electromagnetic waves or gravitational disturbance, for us it is still just information about something that we observe moving away from us in our space-time into the distance and at the same time into the past. I hope I can find understanding in that too. 20210310 >

I first proposed to call this dimensionless constant $K = \Delta V_0 / c$ the Cosmological Constant. But I didn't succeed with that with Professor Bicak. And I even found out later that this name is already used in physics [https://en.wikipedia.org/wiki/Cosmological_constant], so it would only lead to more confusion. But it doesn't really matter what we call the constant, but it should be called something so that we can refer to it simply and unambiguously.

< 20201008 Image Our 1st Postulate [2n1p_EN] summarizes the constant K: