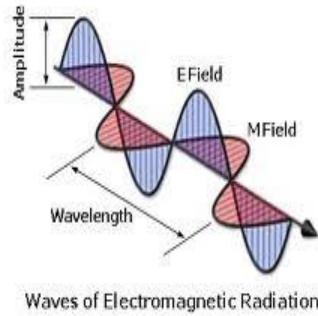
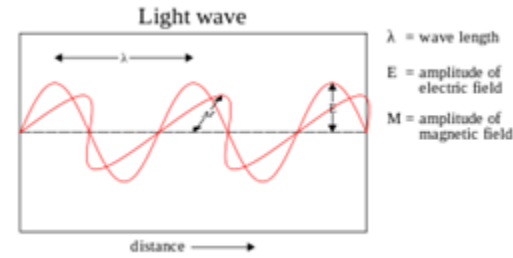


The fact that quantum systems, such as electrons and protons, have indeterminate aspects means they exist as possibilities rather than actualities. This gives them the property of being things that might be or might happen, rather than things that are. This is in sharp contrast to Newtonian physics where things are or are not, there is no uncertainty except those imposed by poor data or limitations of the data gathering equipment.



Waves of Electromagnetic Radiation



λ = wave length
 E = amplitude of electric field
 M = amplitude of magnetic field

Date: 00/00/00

Time: 00:00

Can the future affect the present, and can the present affect the past?

Quantum Cause and Effect

In classical and daily experience, cause and effect are rigidly linked, with a cause giving rise to a unique effect. Hence, for example, hitting a ball makes it fly in a unique direction and so on. Quantum physics changes the relation between cause and effect. The **same** cause results not in **one** effect, but rather in a **multiplicity** of effects. In the case discussed, shining light of wavelength λ on a particle with a fixed velocity v_i is the cause, and the effect is to have a **whole range** of final velocities v_f . In the language of probability theory, the particle starts with a deterministic initial velocity, and as a consequence of the process of quantum measurement of its position, the particle's final velocity becomes a random variable. Planck's constant \hbar quantifies the extent to which measurement introduces **intrinsic** randomness into the system. Heisenberg's Uncertainty Principle is crucial for the theory to be consistent, and avoid the paradoxes which quantum cause and effect could lead to.



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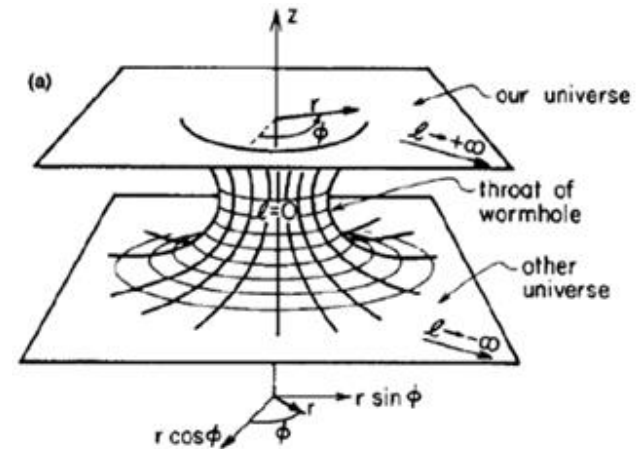
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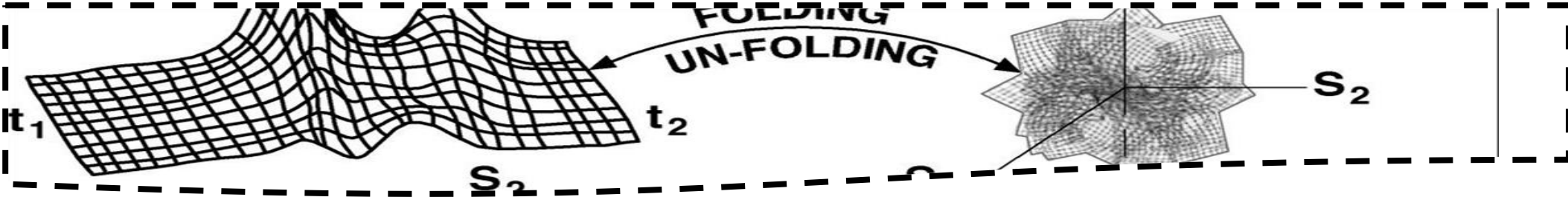
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Do-It-Yourself Time Travel (mini-zine)





Key Quantum Physics Properties

Wave-Particle Duality

The Wave-Particle Duality theory states that waves can exhibit particle-like properties while particles can exhibit wave-like properties. This definition opposes classical mechanics or Newtonian Physics

Quantum Superposition

A particle exists partly in all its particular, theoretically possible states (or, configuration of its properties) simultaneously; but, when measured or observed, it gives a result corresponding to only one of the possible configurations

Entanglement

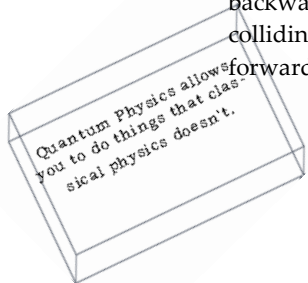
Phenomenon in which the quantum states of two or more objects have to be described with reference to each other, even though the individual objects may be spatially separated. If a measurement is performed on one of these particles, the state of its distant twin is instantaneously modified.

Non-locality

Two entangled particles behave as a single physical object, no matter how far apart they are.

Time symmetry

Time is symmetrical for particles, meaning events happen the same way if time progresses forward or backward. For example, a video of two particles colliding and scattering off each other can be played forward or backward, and makes sense either way.

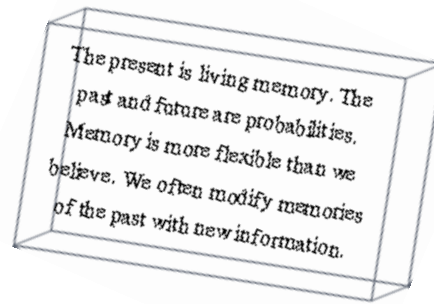
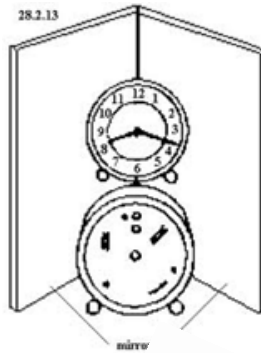


Time

Mirrors & Light

Time Travel Meditation

Sealing



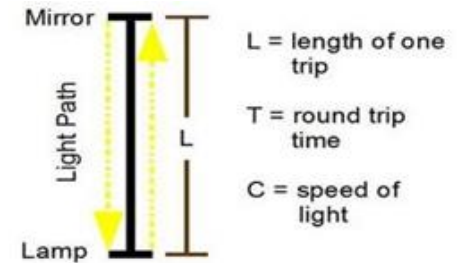
Quantum Time Capsule Features

Our time capsule is accessible to past, present, and future selves. You can provide the past and/or the future with information or communicate across dimensions.

Vision begins when light strikes the photoreceptive cells in the retina. We can only see things by way of light, which is why nothing can exceed the speed of the rate which we can perceive it. If we can exceed light speed, we can time travel. A mirror is one of the easiest ways to reflect light and alter the speed of light to slow it down. Mirrors will allow you to see images several seconds back into the past or several seconds into the future, creating time slices.

Meditation and projection into the future and past of capsule opening date.

Memories, projections, and sacred objects are sealed into a vacuum with sealing words.



Time Travel Bag Literature

Kindred by Octavia Butler

Recurrence Plot (and Other Time Travel Tales) by Rasheedah Phillips

Ancient Future by Wayne Chandler

Beloved by Toni Morrison

An Experiment with Time by J.W. Dunn

Adventures in Consciousness

Future Memory by P.M.H Atwater

The Ankh: African Origin of Electromagnetism by Nur Ankh Amen

Time and Free Will by Henri Bergson

Time Traveler: A Scientist's Personal Mission to Make Time Travel a Reality by Ronald L. Mallett

History and Memory in African-American Culture, edited by G. Farber and R. O'Meally

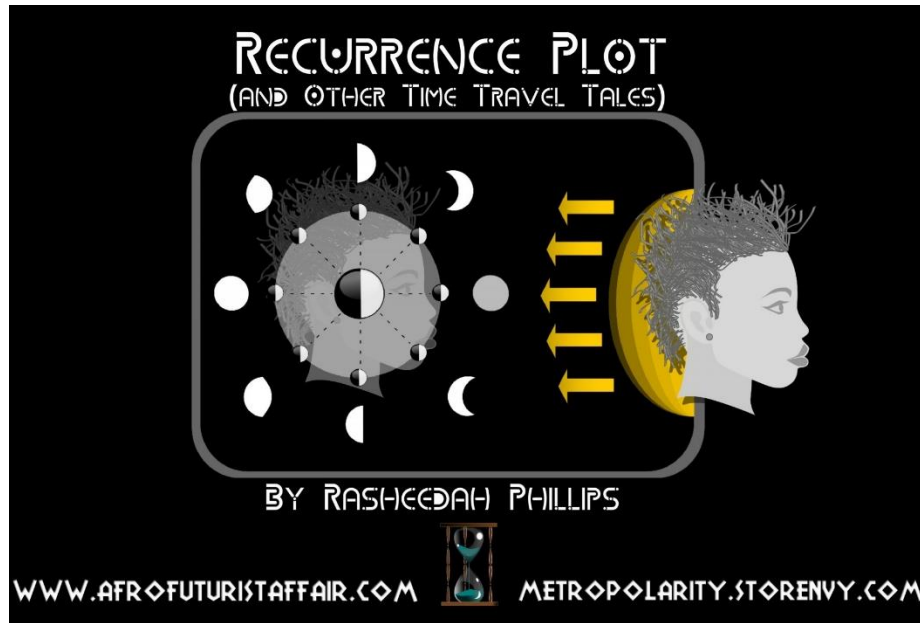
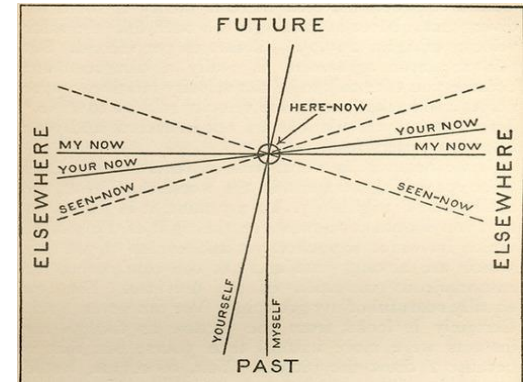
Everyday Quantum Reality by David Grandy

Afrofuturism: The World of Black Sci-Fi and Fantasy Culture by Ytasha Womack

Why Darkness Matters: The Power of Melanin In the Brain, edited by Ann Brown, PhD

A person experiences time partly in his own individual life, and partly through the society which goes back many generations before his own birth...[Time] moves 'backward' rather than 'forward'; and people set their minds not on future things, but chiefly on what has taken place...Time has to be experienced in order to make sense or to become real.

John S. Mbiti, *African Religions and Philosophy*

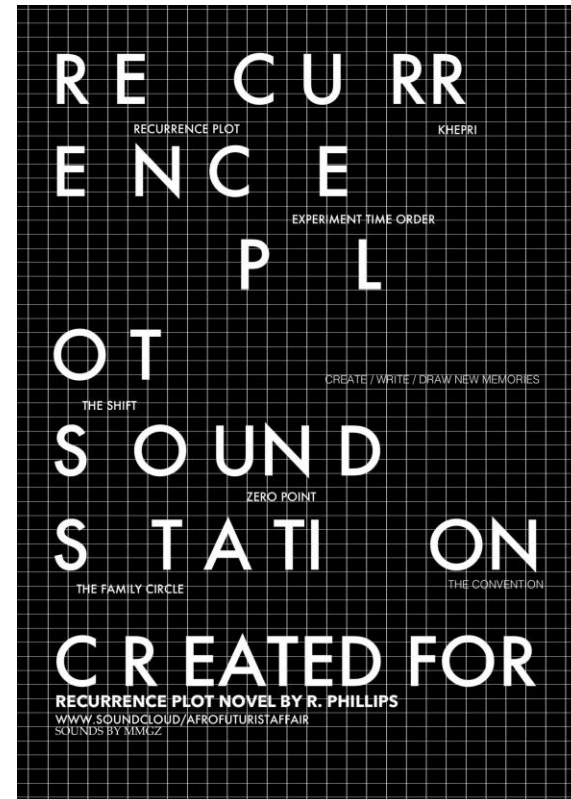


I will open up my Quantum Time Capsule on:

Date(s): _____

Time(s): _____

Location(s): _____



Key Features of Time in African Cultural Traditions

- Cyclical: agricultural, astronomical, genealogical, ecological, and economic cycles
- Examines what is happening around yourself and looks back at things that have occurred in order to make meaning of and orient self in time
- Events that have not yet occurred and are not imminent are situated in the realm of "No-Time"
- **Sasa period** - recent past, the present, and the very immediate future
- **Zamani period** - deeper, more infinite past
- Time is becomes meaningful at the point of the event. It does not becoming meaningful by the clock symbol, at its mathematical moment



**Time Travel Prep Meditation
by Moor Mother Goddess**

How do we prepare to die, prepare to leave?
How do we participate in our own beginning?

When do we collect our past things?
Those things lingering around in our minds.

I am
Building time
a loop station
with my eyes on high reverb
and my heart on delay

Things needed:
Blood
Water
Darkness

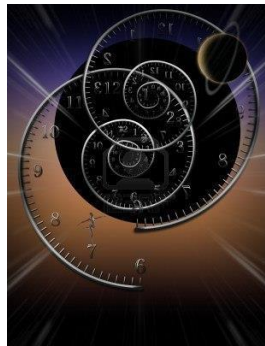
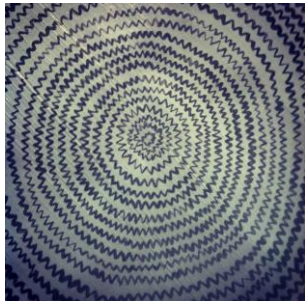
All gathered at the root of my stomach
In search of a destination
Which way is home?
How do I get to the beginning?

Only my memory
remembers the past
I can sometimes feel it
on the back of my neck
chanting symbols

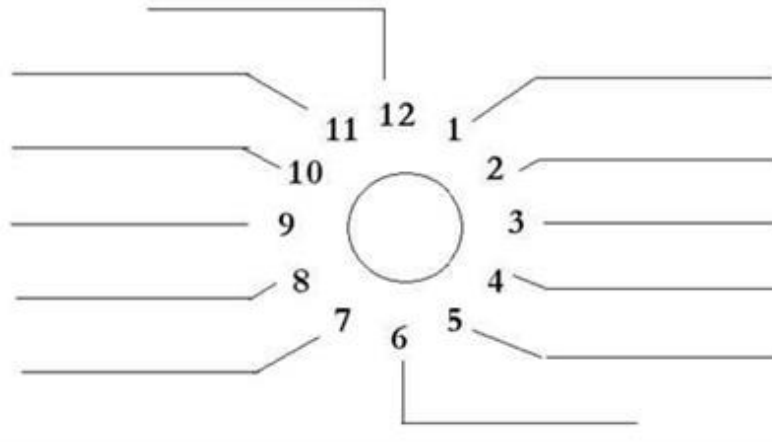
I'm not from this time
this time was not built for me
see I built my own time
high above everything
just can't figure out how to get back up there

I've lost track of everything
can't use they clock
never seems to be working
always 2 minutes past
or a quarter till

These minutes and seconds
disappear and reappear with each step
who is collecting
on this invisible currency?



Set the Quantum Time Clock:



Time Travel Experiments

1. Recall a memory, then get inside of the memory to actually re- experience it. Not just a flash or an image, but build up the scene of the memory like a play set, and step onto the stage. Describe the memory from the perspective of the other objects in the room.
2. Pay particular attention to thoughts you have and order them in terms of their relation to the past, present, or future. For example, if you have a thought about something you plan to do tomorrow, order that into the future. If you have a memory of the past, order that into the past. If you have a present sensation, such as a thought about your current surroundings or a feeling of discomfort, place that thought into the present category.
3. As you categorize these thoughts, notice where you place the "future" thoughts, "past" thoughts, and "present" thoughts in your imagination. Are the past thoughts behind you and the future thoughts in front of you? Take a specific thought from either one of those categories and reverse the direction. If it is a past thought, for example, reverse the thought so that you see it in front of you. For a thought about the future, reverse it so that you see the thought behind you.
4. Take one of the future thoughts that you have reversed and build up a memory of it, just like you did for the past memory in exercise #1. Place your consciousness inside of the future memory to experience it. Take one of the past memories that you have reversed and walk into it, as if it is unfamiliar. As if you are experiencing it for the first time.

Time Travel Prep Questions

My very first memory:

My very last memory:

Which ancestor would pull me back into time? Do I know why?

An event on my personal time line I would alter slightly:

An event on the world timeline I would alter slightly:

Create a future memory:

I would like to leave this message for my past self:
