

the temporal conjecture is a thought experiment that seemed already to be running in my mind as I awoke this afternoon, exploring the idea that time itself may be an actual physical substance composed of atoms of elements as real and touchable as any physical stuff in our world, but existing in an actual 4th dimension, but not appearing substantial, with mass, in 3rd dimensional expression. the key to this idea is that like elements which feel substantial and real in the 3rd dimension, this element in the 4th dimension can exist in phases, or states of solid, liquid and gas, and possibly plasma or other unknown phases or states.

imagine for now, for the thought exploration, that this 4th dimensional substance is actually composed of two 4th dimensional atoms like hydrogen, H_1 , and oxygen, O_8 , in our 3rd dimensional existence. E_1 , and E_8 .

and just as H_1 and O_8 form water, a very dynamical shape which is key for life in our 3rd dimensional world, E_1 and E_8 in the 4th dimension, forms E_w , the actual physical substance of time. this conjecture comes after a couple days of writing short papers about cosmology, which after being written, strongly imply that time travel is categorically impossible, and that the light barrier is no different than the sound barrier in essence, with no causality problems.

the temporal conjecture launches into a different direction, suggesting time travel is actually, physically possible, and suggests a simple reason why the past cannot be changed while visiting. the past is actually physically frozen. the present flowing moment is actually this substance in its liquid phase, and the future is this 4th dimensional substance in its gaseous state.

step now, into the 4th dimension, and visualize this substance forming a growing crystalline sphere, which is the frozen past of our world. the growing expanding crystal structure is covered by a swirling liquid surface, all of which is as real and substantial and enduring as physical ice and water in our world, but is experienced in our world as the unchanged past and the fluid, changing present time of our 3D world.

surrounding this frozen crystalline core and swirling liquid surface of E_w is the gaseous phase of E_w continually being pushed out and away by the growing object. as the sphere continues growing, the swirling liquid surface is dynamically freezing as the gaseous E_w (our future) continuously condenses on the surface, sustaining the continuous, and thin ocean on the surface of this 4D sphere, like a growing planet of time, providing a continuously moving and growing forward flow of time in our 3rd dimension.

now, why and how is time travel possible from our 3D universe? and how is this growing, frozen-fluid-gaseous object expressed into our world as time itself. first of all, in the 4th dimension, it is not time, but a 3D object (meta-relativity). but in our world, the liquid surface is detectable light, EM, space-time itself.

first of all, time travel is way less likely than time reading of the past. time reading will involve collecting information from deep within the planck length and perhaps below absolute zero kelvin, as stephen hawking may have been suggesting when he said it could only be achieved at sub-microscopic scales of size. time travel would involve

actually traveling through the planck length, down through zero kelvin, where we think absolute zero cold switches to infinity hot. kuh-ray-zeeee obstacles lie in our way. you might better wait until you're dead in the 3rd dimension, hoping consciousness sustains and is scalable. but let's not rule it out. as long as the human race is not dead yet, hopefully we will continue advancing into more final frontiers. but wow, space is no final frontier compared to trying to probe and someday find our way down into that 4th dimensional frozen core of the past.

now as to the future, it really isn't formed yet, but it is there and could theoretically be probed and evaluated. it is gaseous E_w , not yet condensed onto the liquid surface swirling and covering the frozen, crystalline E_w core. in this model, the future really does exist already, but in gaseous state. there are many more degrees of freedom for the rapidly moving atoms of E_w , with extreme uncertainties (for us) regarding how this gaseous cloud will condense, raining down on the liquid surface of the frozen crystalline core of E_w structure, the frozen past.

finally, if there is some merit to this idea, there are no time paradoxes in it because the past is literally, physically frozen and cannot therefore be modified, except theoretically, cracking open the frozen core. that of course, would destroy large portions or all of the universe we call an evolving home. unless small areas of the frozen core could be melted and refrozen.

back to the future, the gaseous cloud of E_w in the 4th dimension. we can conceptualize a plasma phase layer outside of the gaseous E_w layer, the latter representing the near possible future condensation into liquid present, and the former representing our distant possible future, which already exists physically, but being in a plasma state, with the temporal atoms dissociated into temporal ions, which have way more degrees of freedom, and thus less predictability. interestingly though, in theory, if you could know the position and momentum of the temporal ions, you could, theoretically know the distant future. but we're still stuck with heisenberg. but at least, if we reach this deeply into time as a physical structure, by then we might be able at least, to predict the weather in our 3D world?

might we one day begin to compose a **temporal periodic table?**

might it be way more complex there than this paper suggests? probably. meta-relativity requires superluminal realms to have within themselves the same relativity relations we have here. what is superluminal to us, is, within itself, subluminal in the relations of its objects. in other words, it has it's own 3D expression within its realm.