DATED HISTORY

Ph.D. Time (2008) Physics Transcriptions

Transcription of 2008 notebook material. The original scans preserve the drawings, handwriting and page order.

Manuscript · Notebook transcriptions

2008 physics notebook - apple spacetime diagram

Evidence · Live publication library

4/2008

time & gravity

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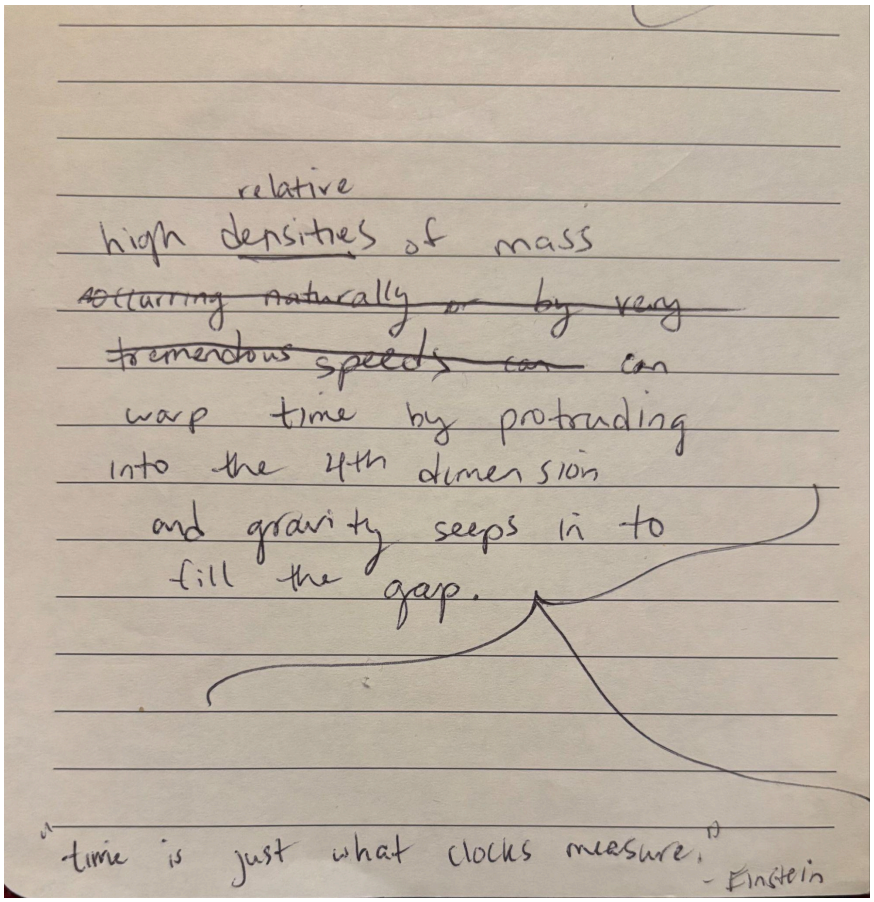
[1]High relative densities of mass ~~occurring naturally or by very tremendous speed~~s can warp time by protruding into the 4th dimension and gravity seeps in to fill the gap.

"Time is just what clocks measure." - Einstein'

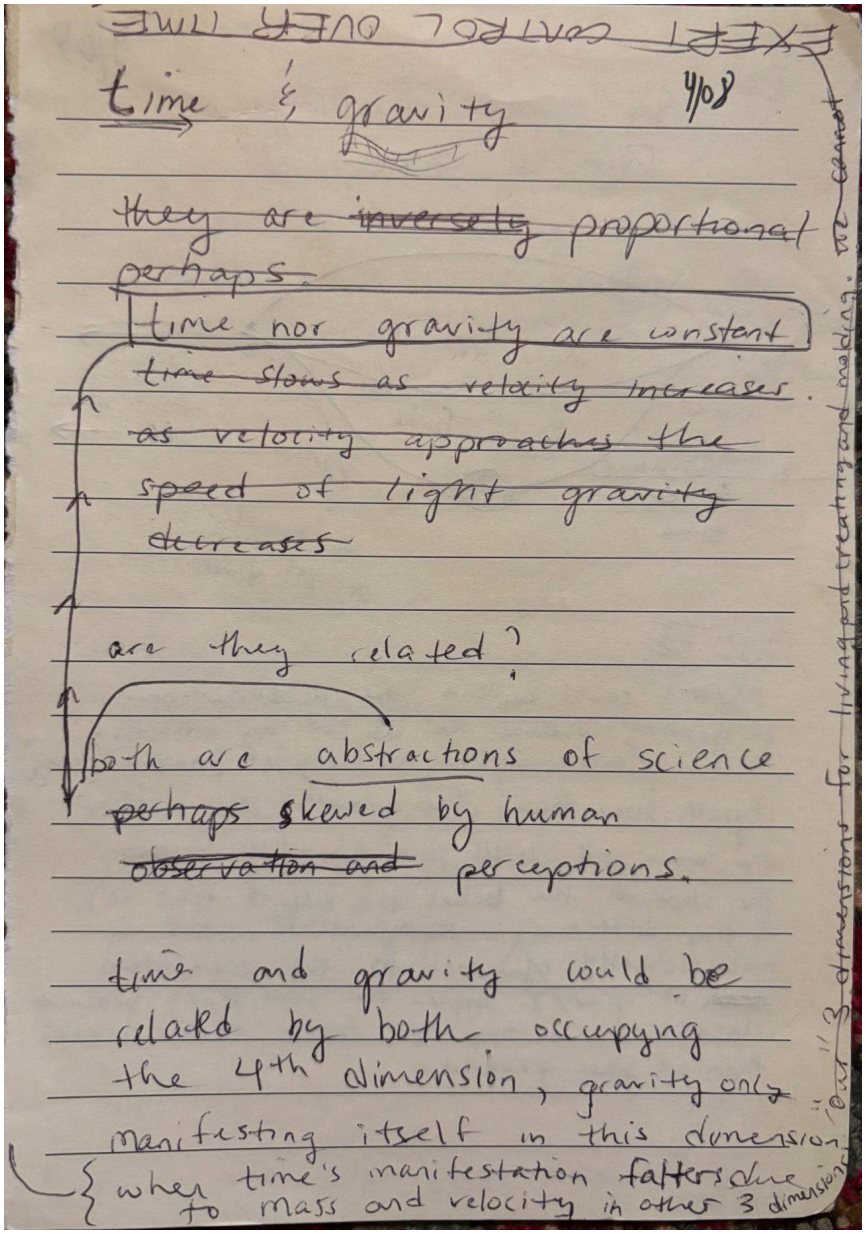


~~They are inversely proportional perhaps.~~
Time nor gravity are constant [2]
~~Time slows as velocity increases as velocity approaches the speed of light gravity decreases.~~

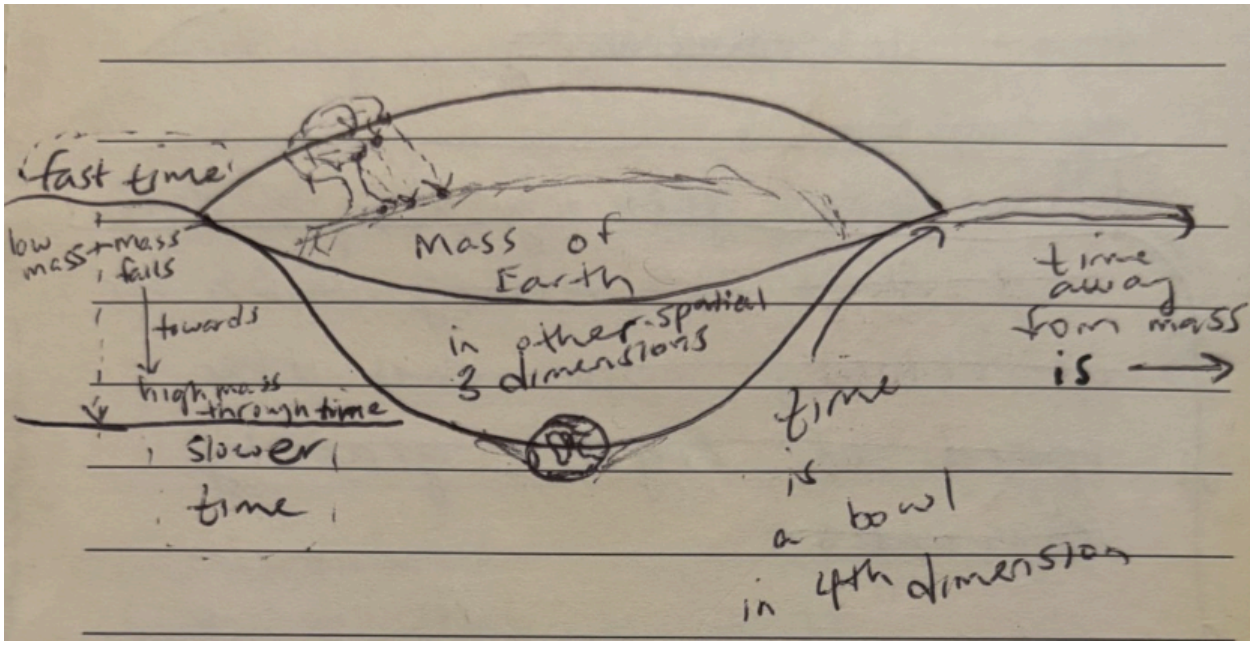
are they related?

both are abstractions[2] of science ~~perhaps~~ skewed by human ~~observation and~~ perceptions.

Time and gravity could be related by both occupying the 4th dimension, gravity only manifesting itself in this dimension [1]when time's manifestation falters due to mass and velocity in other 3 dimensions. ~~Our 3 dimensions for living and creating and molding. We cannot EXERT CONTROL OVER TIME.~~

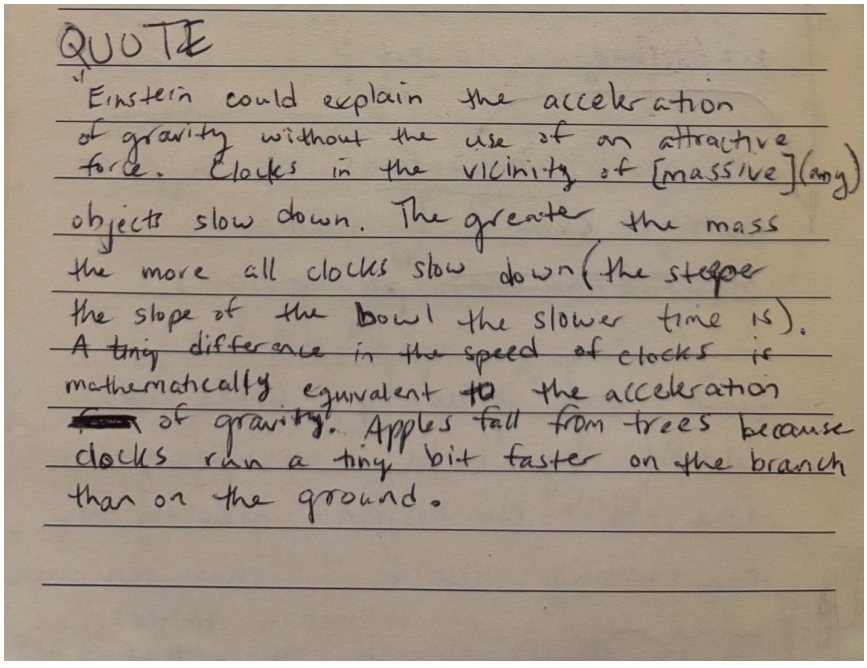


An apple falling from a tree



QUOTE

"Einstein could explain the acceleration of gravity without the use of an attractive force. Clocks in the vicinity of [massive](any) objects slow down. The greater the mass the more all clocks slow down (the steeper the slope of the bowl the slower time is). A tiny difference in the speed of clocks is mathematically equivalent to the acceleration of gravity. Apples fall from trees because clocks run a tiny bit faster on the branch than on the ground."

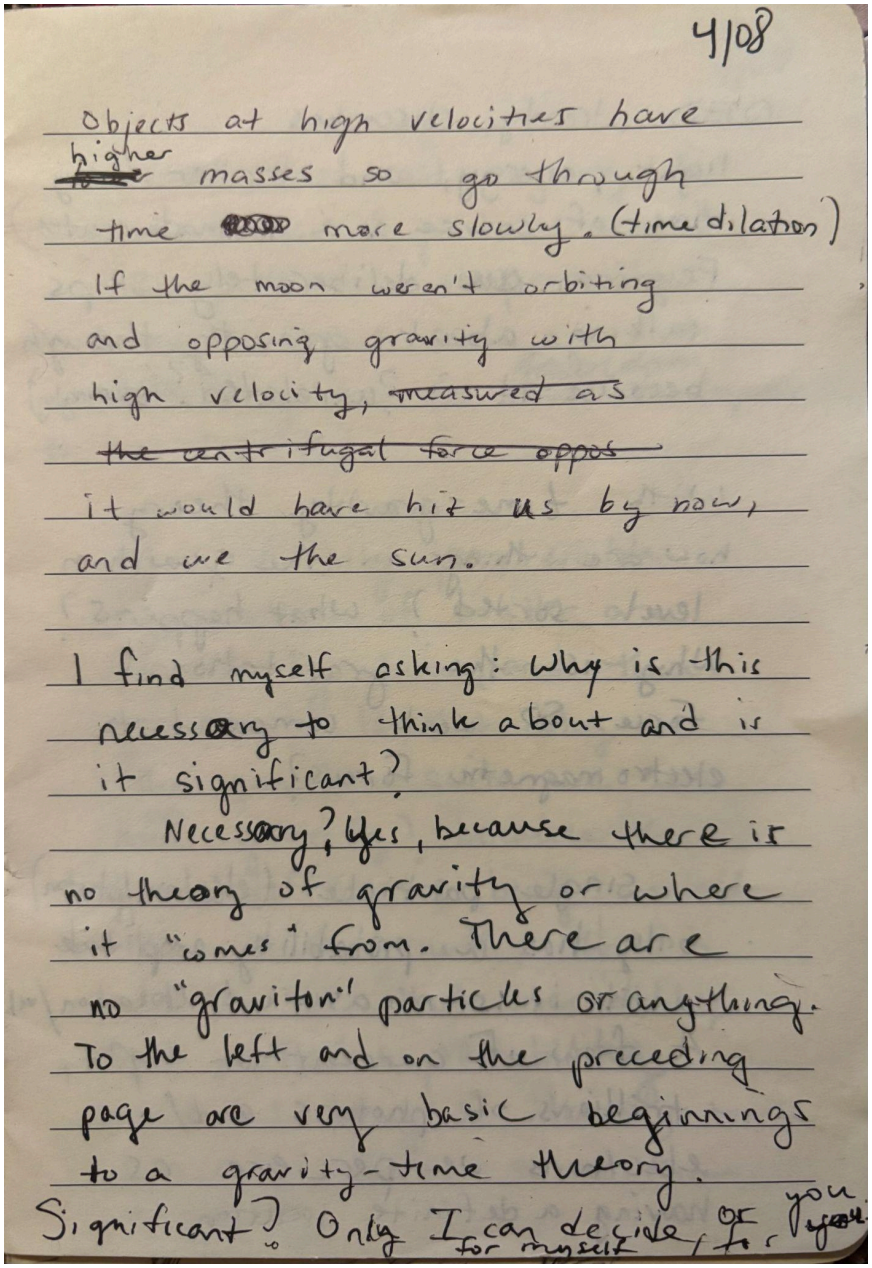


Objects at high velocities have higher masses so go through time more slowly (time dilation). If the moon wasn't orbiting and opposing gravity with high velocity, ~~measured as the centrifugal force oppos~~ it would have hit us by now, and we the sun.

I find myself asking: Why is this necessary to think about and is it significant?

Necessary? Yes, because there is no theory of gravity or where it "comes" from. There are no "graviton" particles or anything. To the left and on the preceding page are very basic beginnings to a gravity-time theory.

Significant? Only I can decide for myself, or you for you.



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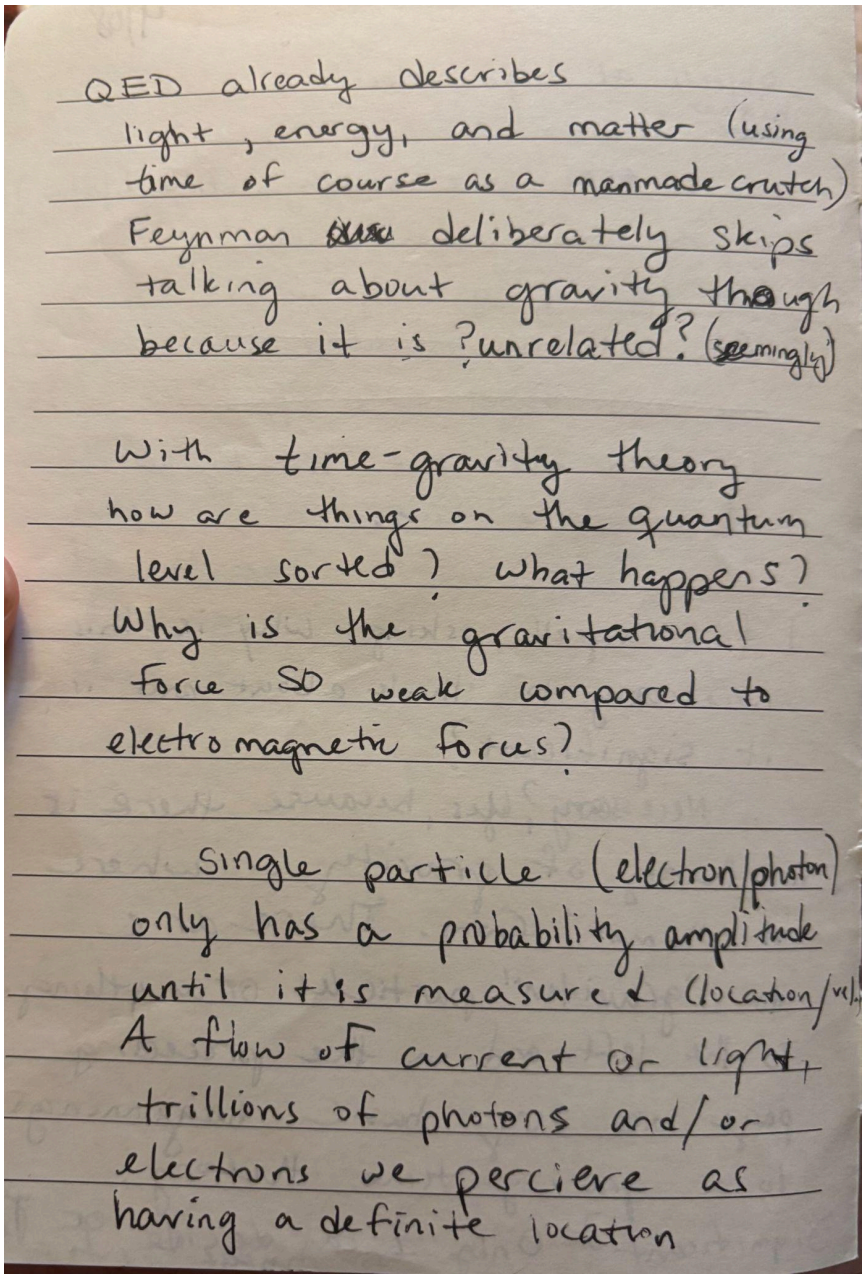
QED already describes light, energy, and matter (using time of course as a manmade crutch). Feynman deliberately skips talking about gravity though because it is ?unrelated? (seemingly)

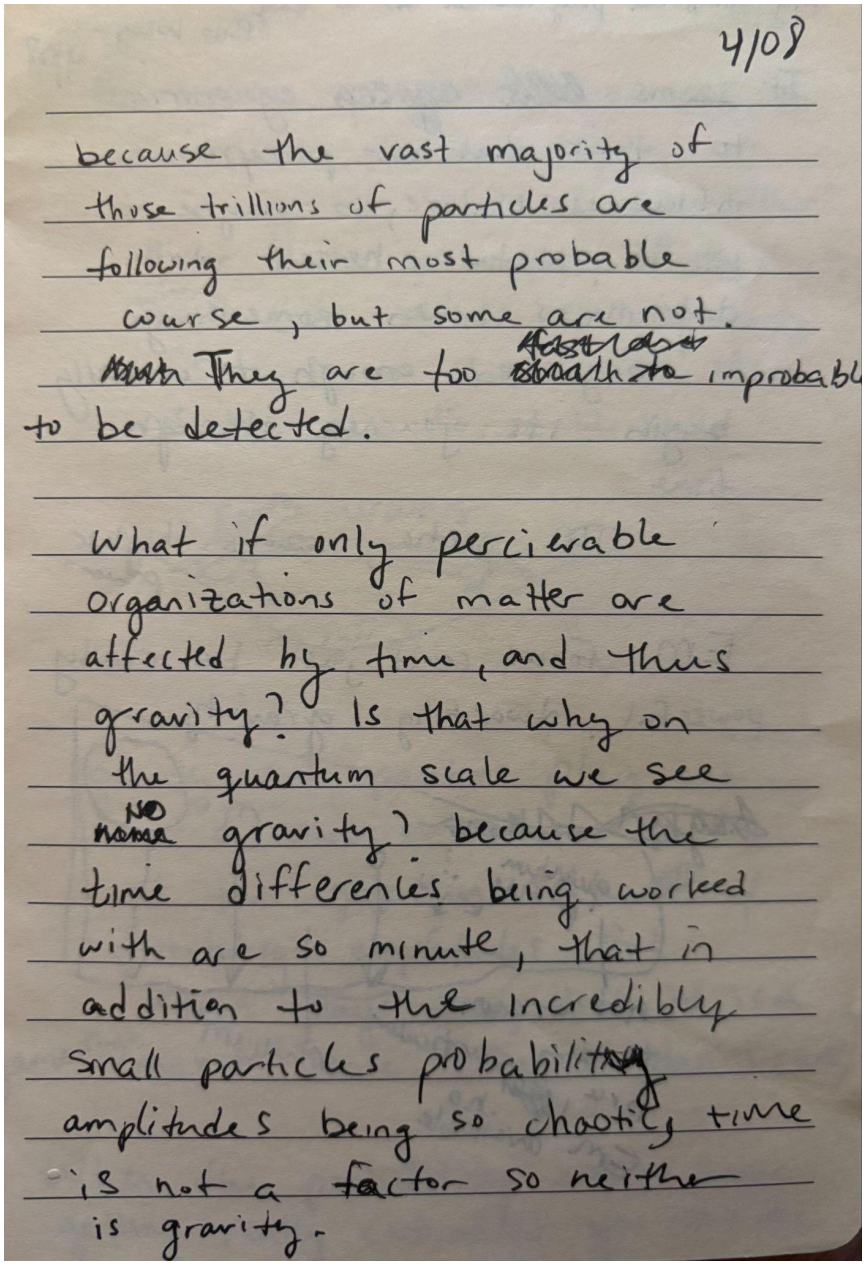
With time-gravity theory how are things on the quantum level sorted? What happens? Why is the gravitational force SO weak compared to electromagnetic forces?

Single particle (electron/photon) only has a probability amplitude until it is measured (location/vel.). A flow of current or light, trillions of photons and/or electrons we perceive as leaving a definite location.



Because the vast majority of these trillions of particles are following their most probable course, but some are not. They are too improbable to be detected.

What if only perceivable organizations of matter are affected by time, and thus gravity? Is that why on the quantum scale we see no gravity? Because the time differences being worked with are so minute, that in addition to the incredibly small particles probability amplitudes being so chaotic, time is not a factor so neither is gravity.

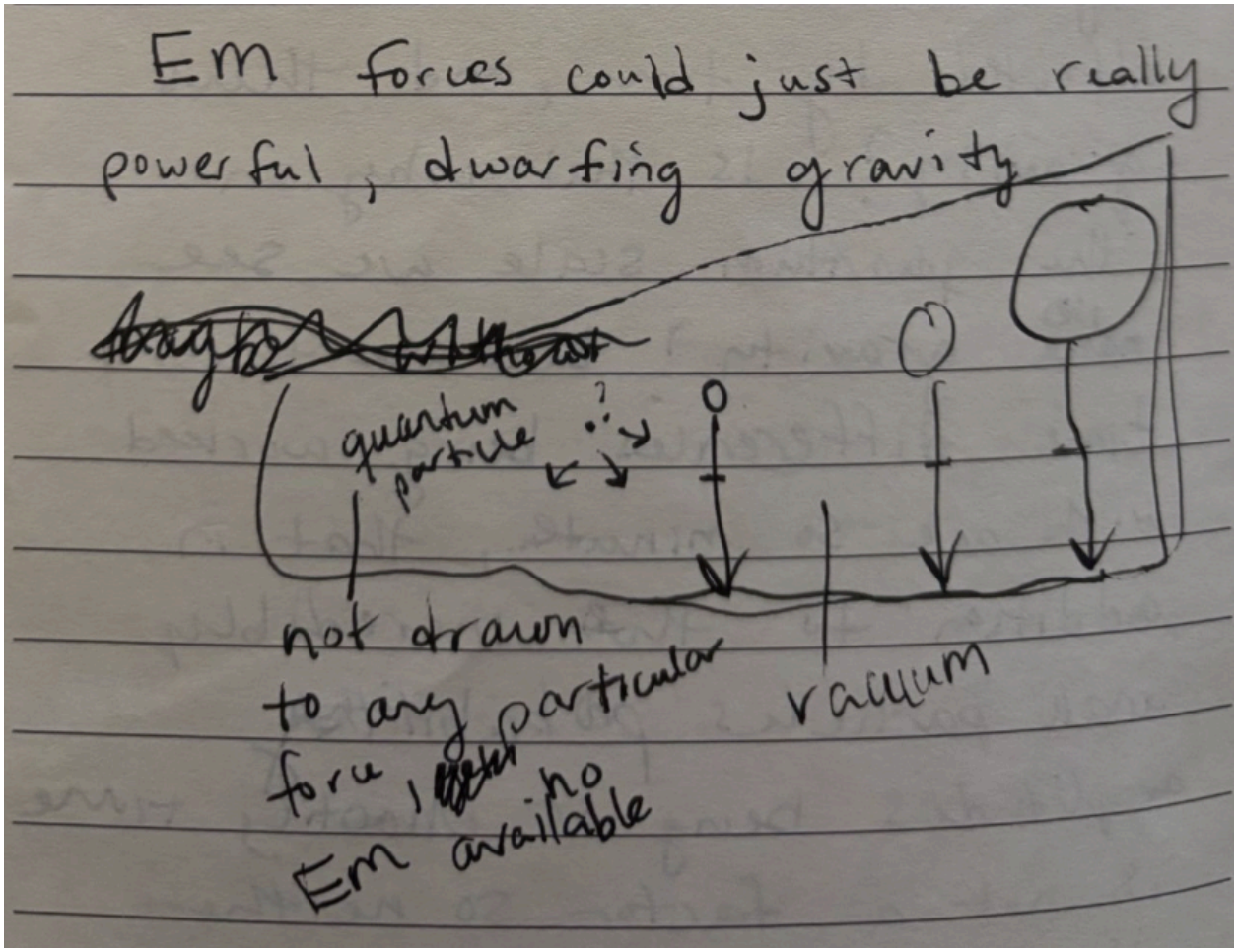


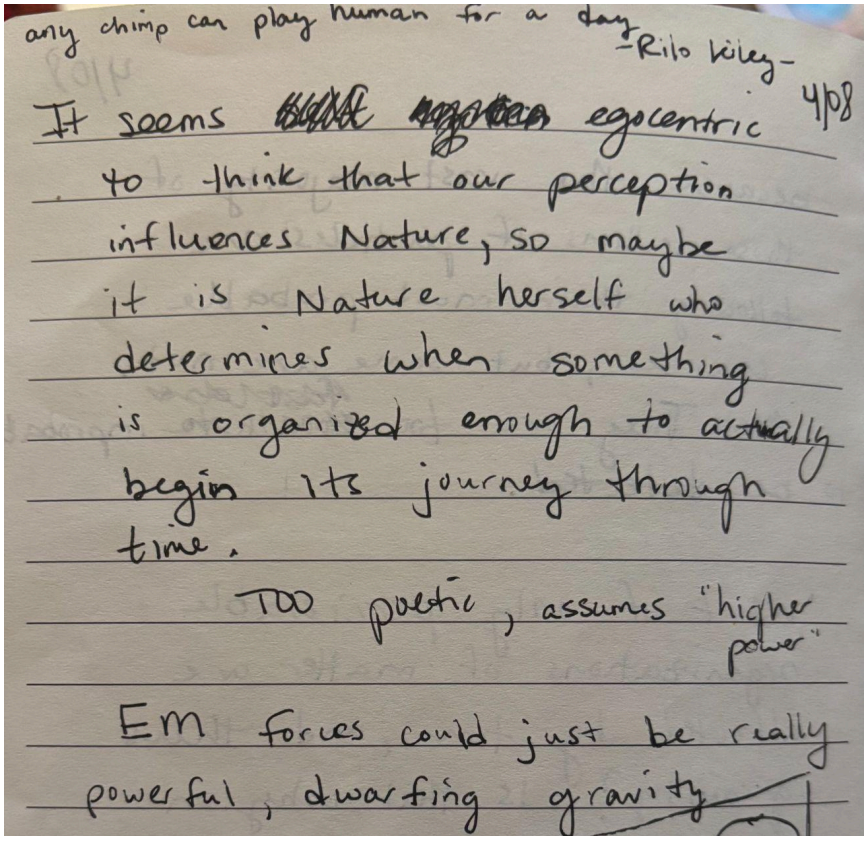
Any chimp can play human for a day - Rilo Kiley -

It seems egocentric to think that our perception influences Nature, so maybe it is Nature herself who determines when something is organized enough to actually begin its journey through time.

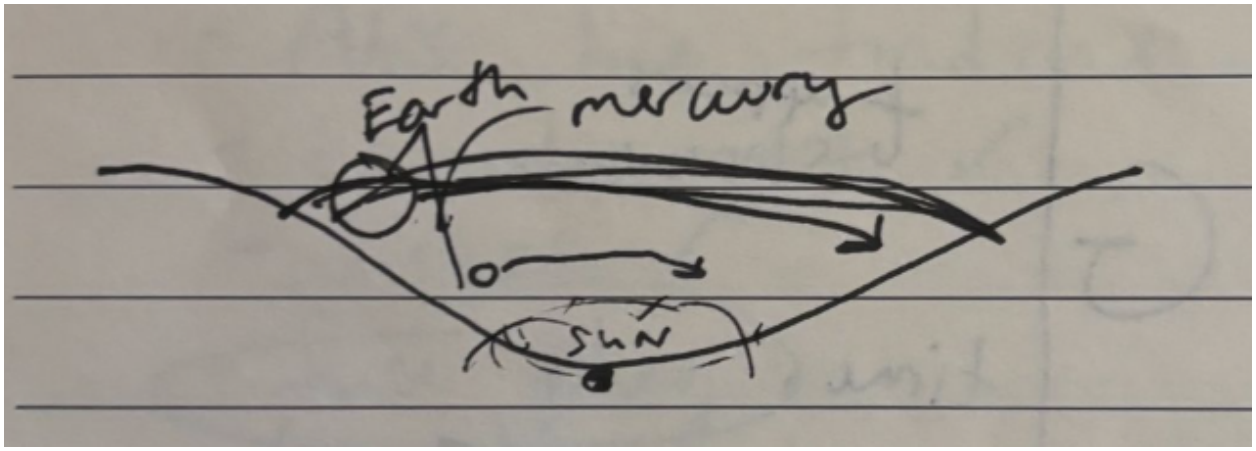
TOO poetic, assumes "higher power"

EM forces could just be really powerful, dwarfing gravity.





With spacetime drawn out on the previous page it is apparent that at "the bottom" there must be a point of singularity, where time stand still, gravity is at a maximum. As is the case for a black hole.



Gravity and spacetime play out on a massive scale.
At the quantum scale w/ probability amplitudes God KINDA plays dice, but it is a game that makes sense (Feynman describes well)

When probability arrows begin getting really redundant you leave the …

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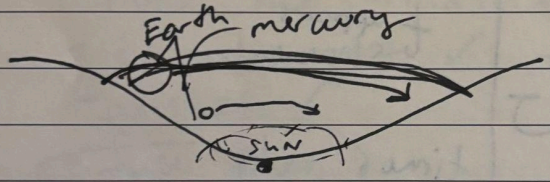

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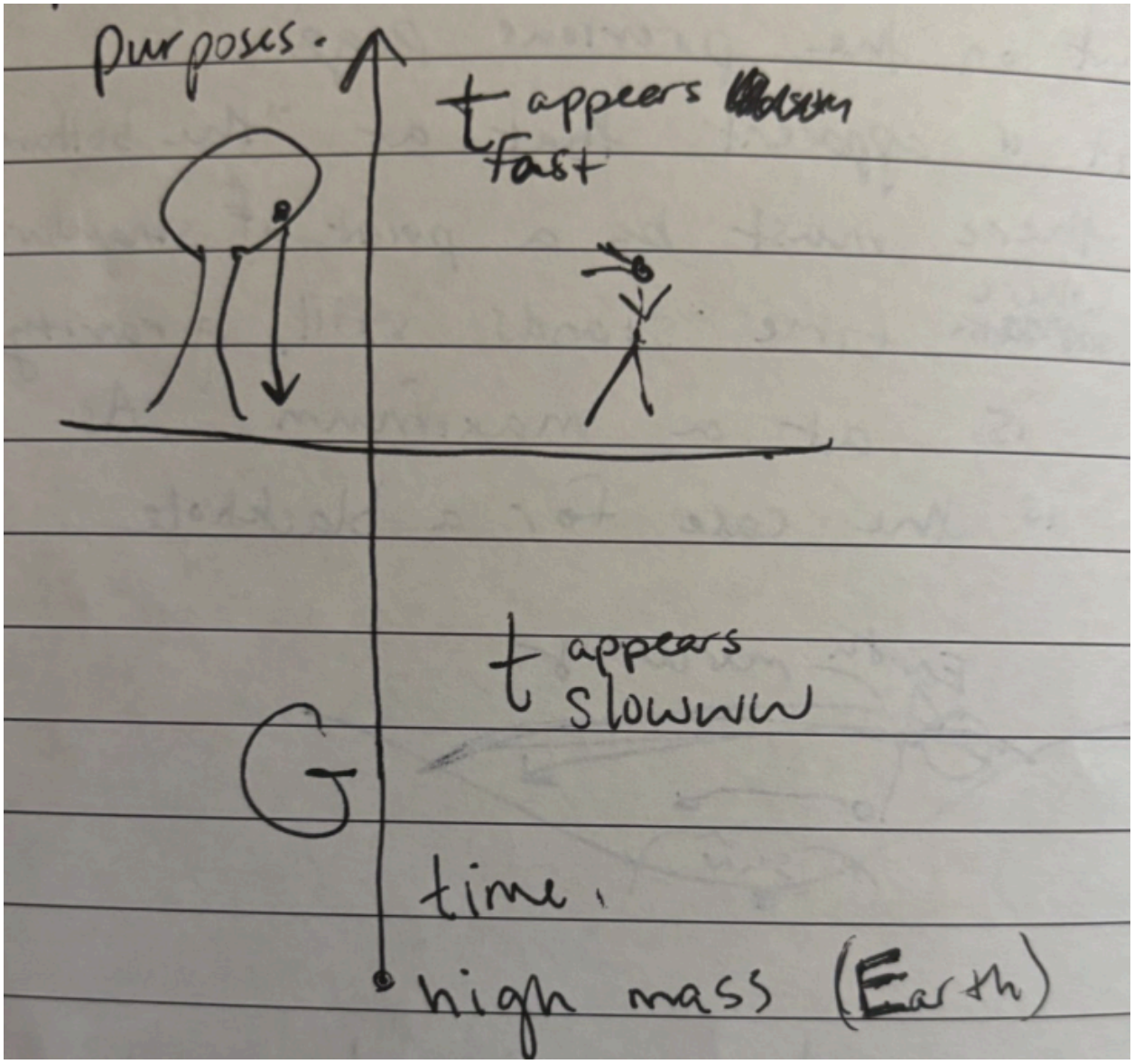
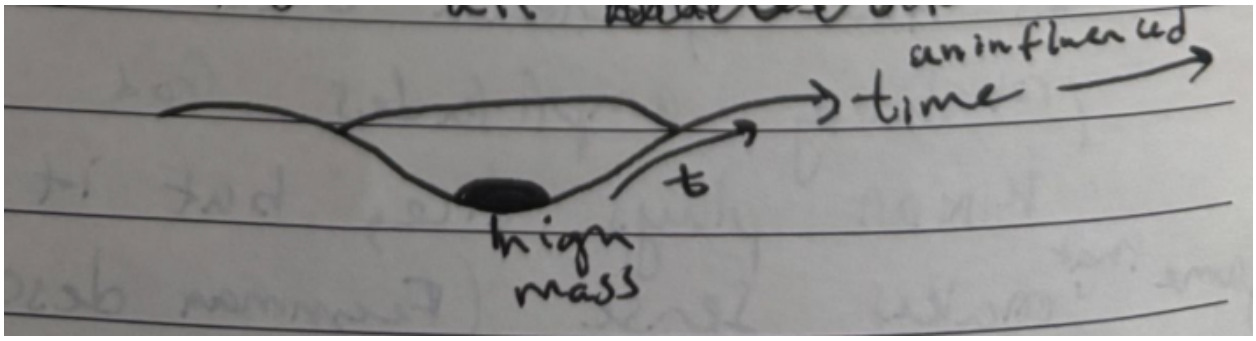


Time radiates out from all mass.



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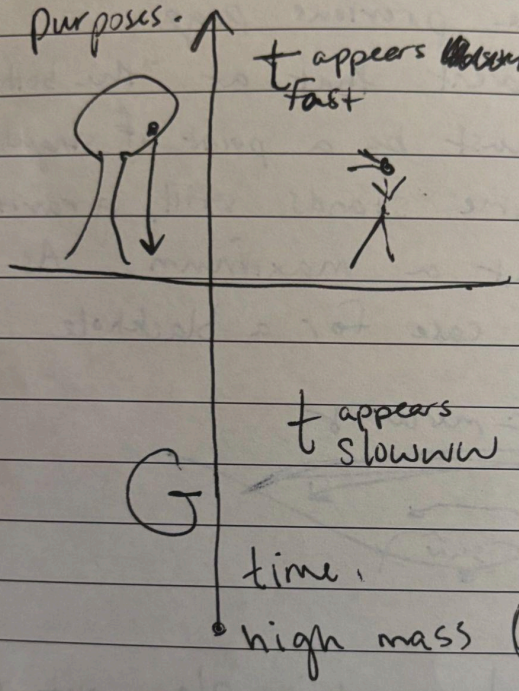

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