So let's continue, here a comment to the AU's analyses in KK posts on page 224, 225

Again – see the SS post above – the analyses really are aome sets of scientifically strange passages, what happens since the AI knows only mainstream physics, having so rather poor understanding what this physics really is - and so doesn't understand what it reads in the SS posts. At that the sets are long and contain many points to consider every of which would be too cumbersome and really having only inessential sense work,

- so again only a few comments to really important points [here[to on page 224].

First one is that AI stubbornly repeats that PSIP model only has the same applications of Lorentz transformations as the SR, so, say,

"…*He* [SS] *assumes an underlying absolute Euclidean spacetime and a constant 4-speed through it, then recovers the same Lorentz transformations as an effective symmetry.*
That is a reinterpretation, not a different prediction. The "reason" is changed in words, but the mathematics for observables is the same.."

- yeah, in the SS posts numerously it is pointed that in everyday ordinary practice Lorentz transformations are adequate to the reality – and so SR is well adequately applicable, but, say, from the quote above looks as that the AI doesn't know about mainstream physics tenet that in the SR fundamental "**relativistic properties of space and time and effects", i.e.. "spce contraction", time dilation [etc.] are discovered**, again – as that Minkowski declared:

"…. Henceforth space by itself, and time by itself, are doomed to fade away into mere shadows, and only a kind of union of the two will preserve an independent reality…"

- not

"... Henceforth rulers showings by itself, and clocks showings by itself, are doomed to fade away into mere shadows, and only a kind of union of the two will preserve an independent reality…"

- while the last version really would be fundamentally more scientifically correct than original one – though not extremely fundamental [as this is till now in the mainstream] as the first one;

- while these really fantastic "relativistic properties of space and time and effects" Minkowski discovered simply completely ad hoc postulating that letters *xyzt* in Lorent transformations relate to all/every points in whole Matter's infinite spacetime. Though note that for this discovery it was necessary to postulate that Matter's absolie spacetime doesn't exist , wht wa postulayed un 1905.

Again, in the PSIP model it is rigorously scientifically clarified why the properties and effects are some transcendent/irrational – and fundamentally wrong – declarations, from which any number of senseless consequences follow, here again point the Dingle objection, . which is "refuted" by the AI in the post on page 225 [that is highly positively evaluated by some poster],

"…*the "mainstream tenets" in question include:*
Lorentz invariance and relativity of simultaneity as the resolution of Dingle-type "mutual time dilation" puzzles. ….."

- for any physicist, who really knows SR, it is quite clear that the Dingle objection has no any relation to weird in 1905, and for populace and many mainstream physicists till now, "relativity of simultaneity". The relativity of simultaneity appears at measurements in, say two, relatively

moving IRFs , of time moments when some **studied simultaneously in both frames distant event happen**,

- **what by no means relates in the objection**, which **relates to the SR postulates** that there is no absolute Matter's spacetime and so all/every IRFs are absolutely equally equivalent and legitimate. That's all – for observer in the frames there is no any necessity to measure anything, they simply know, that in opposite frame clocks tick slower, and so, say, an observer ,if sees an other moving with, say, Lorentz factor =2, frame, can send to the other observer message " My contradictions! – you age two times slower than I!" - and obtain the response "Are you kidding me? – that you age two times slower than I",

The post is long, so now

Cheers
https://www.researchgate.net/post/Does-a-gravitational-field-have-energy-density-like-an-electric-field/225
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So let's continue.

The Dingle objection reveals evident absurdity in SR, from which by proof by contradiction completely rigorously follows that Matter's spacetime is absolute and so there exist fundamentally preferred IRF that could be established as it is at rest in absolute #D XYZ space. However note akso, that the observers will measure clocks tick rates in opposite frames obtain that in opposite frame clock ticks slower, i.e. the absurdity above **is confirmed experimentally**.

Why abd how this happens can be, and is, really scientifically clarified only in PSIP model: - see SS posts above, quite briefly more: particles are some cyclic disturbances in Matter ultimate utmost universal base of Matter- [5]4D dense lattice of primary elementary logical structures – binary reversible fundamental logical elements [FLE] that have [5]4 utmost universal – "kinematical" degreases of freedom at changing its state – "FLE binary flip"

The lattice is placed in the **corresponding** Matter's fundamentally absolute, fundamentally flat, fundamentally continuous, and fundamentally "Cartesian", [5]4D spacetime with metrics ($c\tau,X,Y,Z,ct$), where $c\tau,X,Y,Z,$ are 4 space dimensions, ct is the time dimension. FLE "size" and "FLE binary flip time" are Planck length, l_P, and Planck time, t_P..

Particles are created by transmission to a lattice FLE 4D momentum, $\boldsymbol{P}$, after what move in 4D lattice/4D space with 4D velocities that have identical moduluses be equal to the speed of light $c=l_P/t_P$, having 4D momentum $\boldsymbol{P},=m\boldsymbol{c}$, at that are cyclic algorithms that tick with frequency ω, so have energy $E=pc=\hbar\omega$; and so are some "gyroscopes" that have 4D "angular momentums" [if are fermions, that only constitute mater, though], be equal $\boldsymbol{\hbar}$,thatare directed along $\boldsymbol{P}$.

If created having rest mass particle is created being at rest in 3D space it moves only in the space $c\tau$-dimension [in the mainstream that is the rime dimension], if it is impacted by a 3D momentum $\boldsymbol{p}$, it moves also in this sace, gyroscope rotates following 4D $\boldsymbol{P}$ rotation. So if particles constitute a rigid body that has a length L they rotate whole body in 4D apace by Pythagoras theorem so, that the body's 3DXYZ projection is contracted in Lorentz factor, etc., in full accordance with Lorentz transformations. If particles constitute rigid system of bodies – the set of instruments "IRF" - this system is "Lorentzian" one, where, including, distant clocks along its motion direction in absolute 3D space are younger and younger on Voigt-Lorent decrement. and measured in the IRFs parameters of studied objects/events/processes values are adequate to the reality, traceabale between the really equivalent IRFs, including to absolute ones.

At that if there are , say, two relatively moving with a speed V along common X- axis frames and in a frame some distant events happened simultaneously by its clocks, say, if between placed along X-axis on a distance between L clocks in middle of L a short light flash happened the photons simultaneously hit the clocks,
- while simultaneously in other frame, where the observer studies what happens in the first frame, the observer quite really see that according his clocks the hit into back [relating the frame motion duration] moving IRF's clock happened earlier than into front end clock since really in this case photons and clocks move toward each other with sppeds $c+V$ and $c-V$.

That is called in SR quite adequately to the reality "relativity of simultaneity".

However if there are, say, two IRFs that don't compose a rigid system and move independently along X-axis with the same speed relatively to an other [stationary] frame; say, that are two ships in Bell paradox that have, say, for simplicity equal lengths l, a distance between ships before their acceleration to V, L,

- what is studied in the stationary frame above by the observer, which sees that
- despite that the ships move in space with identical seeds, in contrast toi SR the space doesn't want to contract and so the distance between ships remains be L **[the paradox]**, and, what isn't in the paradox, also:

- if in the ships middles some light flash happens and photons hit into the ships', say back and end clocks , simultaneously by their showings, while non-simultaneiusly in his frame – ad that is in first case above, however

- if some light flash happens in middle of distances between analogous the ships' clocks, say, between the ships' back ends clocks, these clocks show practically the same as the stationary observer, i.e. flashes hit the back end clock of the back ship well earlier than hit into front ship's back end clock accordingly to these clocks showings, I.e in this case the relativity of simultaneity in certain sense doesn't exist.

I.r in systems that aren't **rigid the Galileo- Poincaré relativity principle doesn't act completely**, so in principle it is possible to observe the absolute motion and to measure the absolute velocity; see v proposed in 2013, updated in 3016b experiment see in
https://www.researchgate.net/publication/259463954_Measurement_of_the_absolute_speed_is_possible

Now that's all, the AI writes rather numerous really unscientific things in mcs, but for me commenting this occupies rather long time, so comments else to the AI's page 225 post will be later.'

Cheers .
https://www.researchgate.net/post/Does-a-gravitational-field-have-energy-density-like-an-electric-field/225 ********** ##-31-05-26, page 225

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