Einstein Train Challenge

For believers in mainstream physics

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Einstein intended to simplify public knowledge of Special Relativity by using his best example of simultaneity: the Train Thought experiment....see ref below In reality it's a logical train wreck.

A train is moving at v (left) when 2 lightning bolts simultaneously strike the tracks at A & B.

Photons from rear and front meet at the middle, M'(right), taking time Tr and Tf.

Diagram is in the lab/track reference frame.

Equal times are NOT assumed.

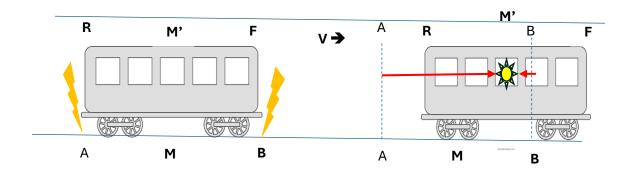
Train: RF distance = L; V>0

, ,

time = 0

Photon speed = SoL

times = Tr,Tf



Photon motion analysis when beams meet:

Rear light beam:

$$AM' = AR + RM' = SoLr *Tr = v*Tr + L/2$$
 (1)

Solve for L/2: L/2 = (SoLr - v)*Tr

Front light beam:

$$BM' = FM' - BF => SoLf *Tf = L/2 - v*Tf$$
 (2)

Solve for L/2: L/2 = (SoLf + v)Tf

Equate each L/2: (SoLr - v)*Tr = (SoLf + v)Tf

$$Tr/Tf = (SoLf + v)/(SoLr - v)$$
(3)

Now apply the SR and simultaneity constraints

SR Postulate 2 => **SoLr = SoLf = c**....Always

Simultaneity => Tr = Tf = t or Tr/Tf = 1

From (3) => 1 = (c + v)/(c-v)

This condition is satisfied only if ... v = 0

SR is then valid ONLy if nothing moves...if there's no relative motion of frames
Only in staticsnot in kinetics.

Simultaneity is also possible with a Galilean transform: SoLr = c+v SoLt = c-v

From (3): Tr/Tf = (SoLf + v)/(SoLr - v) = (c-v + v)/(c+v - v) = c/c = 1

The Gal Trans is supported by many overlooked experiments; see references below.

Summary:

Assuming SoL = c in the train test leads to a reduced scope of SR...to only applying to stationary objects!

Time dilation and length contraction do not apply to objects at rest.

This represents 120 years of scientific fraud.

When v = 0 the Lorentz transform becomes the Galilean transform:

This result is consistent with the aether wind model as proven by Georges Sagnac 8 years after SR was published...

The Challenge:

Refute the proof above, that Special Relativity is only valid if v always equals zero.

References

Einstein's Train Exp: https://en.wikisource.org/wiki/Relativity_(1931)/Section_7=>9

Sagnac, D&P and Wang show that aether drag by matter explains their common result:

SoL = c + -v v is the aether velocity as dragged by the mass in motion at v

Demjanov's tests show that using a vacuum medium(n=1) reduces the light wave amplitude to near zero, explaining why aether cannot be detected with vacuum interferometers or similar instruments.

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Sagnac 1 https://www.gsjournal.net/Science-Journals/Historical%20Papers-Astrophysics/Download/2638

Sagnac 2 https://www.gsjournal.net/Science-Journals/Historical%20Papers/View/2639

Generalized Sagnac Effect, R. Wang https://arxiv.org/ftp/physics/papers/0609/0609235.pdf

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