

NEXT SHEET (OTHER SIDE OF THIS PAGE) IS OUT-OF-SEQUENCE; SKIP IT AFTER READING THIS AND GO TO NEXT

2011-07-30.11:17 Sat

11:48

Doppler alone is insufficient

FG SDC \equiv SNOOP \equiv frame snoop (English) \equiv snoop (in SR context)

A bit more precisely:

FG SDC \equiv SNOOP \equiv frame snoop (English) \equiv snoop (in SR context)

since "frame" as an adjective modifies the English dictionary definition of the noun "snoop" to give it a precise definition within SR, that being an FG SDC. The word "snoop" by itself then becomes a contextual abbreviation for "frame snoop."

I'm no longer so sure Doppler by itself fixes frame cell ratios, if nothing else because one can ~~draw~~ ^{must} draw in ^{the} ~~any~~ Doppler size with the rectangular cell, as the tic marks on the cell sides.



(I think I've defaulted to four sections — three tic marks — per cell side simply because it provides a clear visual feel for the Doppler issue.). Experimental observations of Doppler emissions should of course resolve this issue unambiguously; it's just that rectangle normalization as an abstract problem does not seem to provide any unambiguous scale info, whether it is done with or without Doppler.

Assuming μ conservation, $M^2 = m^2 + p^2$ (or in the more traditional form, $E^2 = m_0^2 c^4 + p^2 c^2$) will of course (?) force scaling, but that sort of defeats the whole purpose of the derivation, since Einstein derived that after (in his next paper) he had worked out the SR transformation based solely on frame equating and the constant speed of light. (Maybe energy conservation should be brought in?)

Terry Bollinger 2011-07-30.11:48 Sat

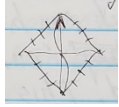


[2011-07-30.11:17 Sat> [11:48]
[FG SDC ≡ SNOOP ≡ frame snoop (English) ≡ snoop (in SR context) / Doppler alone is insufficient]

A bit more precisely:

FG SDC ≡ SNOOP ≡ frame snoop (English) ≡ snoop (in SR context)
since "frame" as an adjective modifies the English dictionary definition of the noun "snoop" to give it a precise definition within SR, that being an FG SDC. The word "snoop" by itself then becomes a contextual abbreviation for "frame snoop."

I'm no longer so sure Doppler by itself fixes frame cell ratios, if nothing else because one must draw in the Doppler size with the rectangular cell, as the tic marks on the cell sides.



(I think I've defaulted to the four sections — three tick marks — per cell side simply because it provides a clear visual feel

for the Doppler issue.). Experimental observations of Doppler emissions should of course resolve this issue unambiguously; it's just that rectangle normalization as an abstract problem does not seem to provide any unambiguous scale info, whether it is done with or without Doppler.

Assuming μ conservation, $\mu^2 = m^2 + p^2$ (or in the more traditional form, $E^2 = m_0^2 c^4 + p^2 c^2$) will of course (?) force scaling, but that sort of defeats the whole purpose of the derivation, since Einstein derived that after (in his next paper) he had worked out the SR transformation based solely on frame equivalency and the constant speed of light. (Maybe energy conservation should be brought in?

[11:45]

Terry Bollinger 2011-07-30.11:48 Sat

