

Terry Bollinger 2011-07-30.11:11 Sat

2011-07-30.10:42 Sat > 11:10
FG SDC \equiv SNOOP \equiv snoop (English) / Einstein implicitly used 1 snoop, but not 2

So, rather than discarding the earlier ~~term~~ phrase "FG SDC" = "Fine-Grained Spatially Distributed Clock," I'll just make it exactly equivalent to and fully interchangeable with the new phrase "SNOOP" \equiv "snoop" = "synchronized network of observing particles." That is, "FG SDC" \equiv "SNOOP" \equiv "snoop"

Thus a frame snoop fills up an entire ^{region} ~~area~~ of interest ^{within a frame} with synchronized, time-and-event recording particles that are all moving, at least on average (to permit gases), with that frame. The English connotation works so well that the lowercase version of the acronym can be thought of as ~~being~~ ^{just} an ^{extended} ~~extended~~ definition of the English word, since a "frame snoop" does just that: It ^{is} ~~snoops~~ ^{snoops} for data throughout the frame, and records it in a way that is causally unambiguous. A snoop is the same thing as an FG SDC, and can also be thought of simply as an informal descriptive ~~name~~ ^{one} name for an FG SDC, that describes what the FG SDC is used for.

Interestingly, Einstein clearly understood the idea of a frame snoop, both from his description of the transitive nature of synchronization, and from his use of an implied fine-grained snoop in his initial description of how moving rod ends "read" the times, "continuously" by implication (really just fine-grained) of the stationary region. Einstein never used two snoops however; he focused only on point (rod-end) clocks for the moving frame.



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[11:09]

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