

Re: What is the history of relativity theory? (continuation of Poincare thread)

Source: <http://sci.tech-archive.net/Archive/sci.physics.research/2005-09/msg00367.html>

- *From:* "Juan R." <juanrgonzaleza@xxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 21 Sep 2005 07:04:21 +0000 (UTC)
-

Cl.Massé wrote:

- > Some persons have difficulties to tell the
- > difference between physics and mathematics, that's all.

Yes I noted that here. Some people cannot see that CKC formulation of thermodynamics and MTE formulation are completely different from the mathematical view (different axioms and therefore different theorems, etc.) but both represent the same physics. In fact, are the same thermodynamics.

- > It is precisely because he don't that we have this debate. Poincaré =
never
- > wrote down his postulates in an unambiguous and workable way. If not,
- > please answer my challenge, quote him and work out the purported "Poinc=
aré
- > theory".

There is not a paper containing Poincaré SR as there is not a paper containing QM, like there is not a paper containing the CKC formulation of thermodynamics. But, once studied all papers and books in CKC, it was relatively easy to a single man, Tisza, wrote in a single paper/book the MTE axioms.thermodynamics.

Einstein claimed newer read Poincaré and claimed that only knew a Lorentz paper of ten years ago! I already provide evidence and references of colleagues claiming that Einstein read Poincaré works [7. Solovine M. Lettres =E0 Maurice Solovine. Gauthier-Villars: Paris, 1956.]. I also said that Einstein used the same notation and some other details of 1904 paper by Lorentz (which Einstein claimed to unread). I also provided historical evidence that when Einstein wrote to Hilbert said that had submitted the correct field equations of GR, when it has been historically proven (in basis to recent chronology) that said not the true.

Naturforsch 2004, 59a, 715.

arXiv 2004, physics/0405075 v3.

Re: What is the history of relativity theory? (continuation of Poincare thread)

Etc.

I even offered reproductions of the correspondence between Hilbert and Einstein.

<http://canonicalscience.blogspot.com/2005/08/what-is-history-of-relativity-theory.html>

i think that it is very easy to write a paper when others did first the pionnering work and let me remark again, there testimony that i cited [7. Solovine M. Lettres =E0 Maurice Solovine. Gauthier-Villars: Paris, 1956.] that Einstein read Poincaré work. Moreover, more recent works are always more logical. Hamiltonian mechanics is more logical, mathematically rigorous, and powerful than original Newton mechanics, but Hamilton based his work in previous Newton work.

- > Einstein didn't rejected all the postulates used by non-relativistic
- > mechanics, that's not the issue at all. What is important is the new
- > principles he introduced and made clear, without which special relativity
- > doesn't work, and the hidden assumption he identified and dispelled. This
- > great discovery doesn't deserve this nitpicking.

I have posted a new reply on 'Derivation of Lorent transformation'. I wait your reply. how i and other explained to you, the two 'new' principles stated by Einstein was stated by Poincaré before. The PoR. I reproduce here and the constancy of c, including two references to won Poincaré writings, one mine and other provided by Harald?, that you misread or 'attack' with strange arguments.

such as i see, your emphasis is in claiming that Einstein relativity is very very different from Lorentz or Poincaré ones. However the own Einstein (1907) clearly recognized [obtained from Logunov article i already cited]

"Surprisingly, however, it turned out that a sufficiently sharpened conception of time was all that was needed to overcome the difficulty discussed. One had only to realize that an auxiliary quantity introduced by H. A. Lorentz, and named by him 'local time', could be defined as 'time' in general. If one adheres to this definition of time, the basic equations of Lorentz's, theory correspond to the principle of relativity . . ."

But that step was done by Poincaré. I already CITED his work where Poincaré states that local time is a real time and Poincaré even defined it in terms of clocks, like Einstein did after. I cannot repeat the cites and references each time that i wrote here. You would read with care previous posts before reply.

When Pauli does not studied Poincaré works, Pauli claimed that SR was

Re: What is the history of relativity theory? (continuation of Poincare thread)

Re: What is the history of relativity theory? (continuation of Poincare thread)

obtained by Einstein. This Pauli cited is always cited against Poincaré. But when studied Poincaré relativity theory in posterior years (1955), Pauli said

"Both Einstein and Poincare, took their stand on the preparatory work of H.A. Lorentz, who had already come quite close to the result, without however quite reaching it. In the agreement between the results of the methods followed independently of each other by Einstein and Poincaré..."

Agreement. Pauli says *Agreement*. There is nothing really new (regarding fundamentals) in Einstein papers that was not contained in previous Poincaré work. Therefore Einstein paternity of SR is an injustice.

I am finalizing the new version of my web document (cited above) on history of relativity. It will be updated in some few days. It has been generalized and corrected. The current version has 17 references. The new extended has close to 30!

I have revised and including very, very recent material on the topic like that appears in the AMS journal.

Jean Mawhin. Henri Poincaré. A Life in the Service of Science AMS 2005, 52(9), 1036–1044

that will be published in OCTOBER. Which material supporting i (and others) said

"But it is unquestionable that Poincaré anticipated the so-called Minkowski space-time."

"His books on Maxwell theory contain the germs of special relativity and led him to analyze, correct, and name the Lorentz transformations."

"Poincaré published in 1905 a note (followed by an extended memoir) on the dynamics of the electron, containing the whole mathematics of special relativity."

"[...] the mathematician Poincaré reached relativistic kinematics via Maxwell's electromagnetic theory[...]"

Juan R.

Center for CANONICAL |SCIENCE)

.

Re: What is the history of relativity theory? (continuation of Poincare thread)

- **Follow-Ups:**

- ◆ **Re: What is the history of relativity theory? (continuation of Poincare thread)**

- ◇ From: Javier Bezos

- ◆ **Re: What is the history of relativity theory? (continuation of Poincare thread)**

- ◇ From: =?unknown?q?Cl=2EMass=E9?=?

- **References:**

- ◆ **Re: What is the history of relativity theory? (continuation of Poincare thread)**

- ◇ From: juanrgonzaleza

- Prev by Date: **Re: The time it takes to emit one photon**

- Next by Date: **Re: Molar extinction coefficient of IR-dyes**

- Previous by thread: **Re: What is the history of relativity theory? (continuation of Poincare thread)**

- Next by thread: **Re: What is the history of relativity theory? (continuation of Poincare thread)**

- Index(es):

- ◆ **Date**

- ◆ **Thread**