

Relativity Dead End :

Gravity and time announced



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EDITION de l'OMNIBUS

What I know, about physics, is that for a man standing on the bank time goes faster than for the one standing in the boat. Especially if his wife is on board.

Woody Allen

FOREWORD

During those last two and a half millennia, three concepts of physical world have prevailed (and only three), as primary truth to which any other physical phenomenon had to be related. Thank to an unchallenged thought, the logical thinking and pursuing mathematical algorithm, each of those three achieve their demonstration thanks to according observations help. It is this process, so called scientific, which took over on any other way of human thinking (intuitive, revealed or, more often, simply conformism of mind) all of them considered, from now on, as archaic.

Evidently you just have recognize each of them: Aristote's geocentrism amended by Claudius Ptolemaus, Copernic's heliocentrism completed by Kepler, Galileo and Newton and, at last, Einstein's relativity, special then general.

After a two thousand millennia rule the first one was forced to surrender to second which, 250 years later, did give up to the third one. And the odds are that 100 years will get the better of the third in spite of the impressive commander Einstein picture pulling, with mischievousness, his tongue to the posterity.

Pulling the tongue is a childish making fun, therefore it's with a childish story that we have to start, sending right back to previous Woody Allen joke.

“A “burchiello” has to be considered as a little floating house. A middle room with, on both end, cabins and resting place for servants, at stern and bows. It's a long square room having double-deck, closed by shuttered glassed windows. It takes eight hours to accomplish the short journey. Those who came along with me were, besides my mother, M Grimani the priest and M. Baffo. She took me with her to sleep in the main room while the two friends get to sleep in the “camerino”.

At day break she got up and having open one of the windows facing my bed, the rising sunbeams did hit my face and forced me to open the eyes. The bed was low. I couldn't see the land. I just saw, through the window, the top of the trees which are all along the river. The boat was moving, but with such smooth motion that I couldn't feel it. I just saw those trees walking out my vision field and this came as a big surprise to me.

Oh! Dear mother! I exclaim, What is this? Trees are walking? At this moment the two lords came in and looking at my astonishment did ask the reason why. What makes the trees walking ? did I ask. They laugh at me and my mother with a sigh of feeling sorry for me said: it's the boat which is walking, not the trees. Get dressed!

At this very moment I realize the cause of this phenomenon thanks to my awoken reason and fill not worry at all. And I said, may be it's not the sun which is walking, but us rolling from west to east...” (Casanova. Story of my life)

This amusing event which cause to the Venetian adventurer, still a kid, both mother making fun and consciousness of motions relativity, remind us other type of locomotion, more up to date, but bringing about same sensation. Seated in our compartment at the station railroad it's hard to tell which one of two stationery trains start moving, ours or the one on the nearby track. And yet young Casanova impression was not that wrong. The trees along the river, if they were not walking, were in motion too, taken away by underneath tectonic plate and by rotating Earth, itself orbiting around the Sun, itself taken away with the planets, in its great journey around the galaxy...

So, Casanova's "burchiello" was simply adding an additional motion to many others, undetectable to us. And for the child running inside the cabin and not watching the bank passing by it looks like the one stationery was boat.

Childish questioning, when kept in mind, may produce unexpected results when adulthood has come. When child I was wondering about an other motion effect. So perhaps did you ? Why it takes hardness to walk uphill compared to a flat straight walk ? And if not daring to ask such a question it was simply not to appear as mentally retarded. Are you sane my boy ? The reason is quite simple, when uphill you have to climb when downhill you'll just have to let it go!

The answer was, apparently, laying in the "climbing" and "sloping". But what makes the difference, out of a slop line not even easy, sometimes, to identify ?

To understand why "climbing" require more energy than "sloping" require common sense to tackle the question. It must be either a mysterious attractive force which pull us downward either some kind of pressure acting from up to down, opposite

when we are climbing, pushing us when we sloping. And since we know that our weight may be modified when on Earth or in space we have to consider that this “attraction” or “pushing” force is modified according to our position which had the following implication: gravity is subject to relativity too. Furthermore my weight (mass) not only vary according to where I am standing, but according to my motion too...

Now if we have to admit, like we will see, that time is a simple result of divided space by motion we have, already, to consider that to extend relativity from motion to time itself, as did Einstein at the beginning of last century, giving to time an independent reality, was the additional step not to get over unless to lead special and general relativity to the dead end where they stand now, together with part of physics.

Therefore the question, iconoclast among alls, comes : was Einstein mistaken ?

Time and gravity are in the heart of relativity (special and general). For all that their secret had never been revealed. Einstein, himself, at ending life express the desire to revise his calculation. Space had not yet shown it was curved and space probes “Pionners” are getting out the solar system the thumb one’s nose at general relativity. Something goes wrong with genius Albert theory. Could it be, after all, that time is not relative and gravity without links with space itself not curved with one dimension ? Those are the (iconoclast) subjects of this essay. The answers may surprise you. And if, finally, all was more simple than it doesn’t look.

ISBN 978-2-9534904-0-4



Price :18 Euros