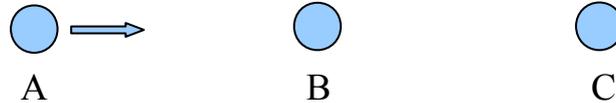


## Thought experiments demonstrating the nonsense of past, present and future existing together.

Consider first a universe consisting of nothing but the following three particles:



We specify that these are identical elementary particles, with no means to interact except by collision, and that B & C have no relative motion with respect to each other, but A has some motion in the direction of the arrow relative to B & C.

Particle A must in due course collide with B, losing some momentum, which is transferred to B, which thenceforth must eventually collide with C, giving that some momentum also.

But in this universe there exists no means of quantifying the velocities involved, except as relative to the initial relative motion of A, which itself is indeterminate. If we specified that there was another particle, not involved in these collisions that just happened to be spinning, we could relate the changing velocities to that, but what means would there be of knowing that the rate of spin of this particle was not changing as the absolute motions of A, B & C might be changing together? Thus if we introduce this means of quantifying time, which is essentially the same as we use in our universe (the spin of the planet, which we now know has been reducing for millions of years), it is clear that what we can then call 'time' is subject to the same uncertainty as the absolute motions of A, B & C. Thus 'time' is just another representation of relative motion.

Time cannot be some 'thing', because it has to be relative. The only certain realities regarding time as far as A, B & C are concerned, is that A's motion towards B & C must precede B's motion towards C, which must precede C being physically moved by B; and we can logically define 'past' and 'future' relative to any instantaneous situation we choose in this sequence of events.

At any point in A's transit to B, the distance moved represents 'past', and the distance to the first collision is the near 'future', with that collision representing a transition point to a more distant 'future'. It is then clear that the distant future of C being hit by B cannot exist with any of the past, because motion and events must intervene, as must spacial separation. The instantaneous collision of A with B can be defined as one 'present' between the past motion of A and lack of motion between B & C, and the future motion of B relative to C and eventual collision, and the changed motion of A.

Clearly, the use of the word, 'present' is subject to different possible definitions. And clear definition is vital to conveying what we mean. The word 'present' represents no 'period' unless we define it to, as in 'the present minute', 'the present day', 'the present year' etc., or pertinent to this discussion, the duration of the collision, which will vary with the material involved.

If we bear all this in mind in a second thought experiment in our universe, on this planet, where instead of the motion of three particles, we are considering the motion of three cars on a motorway, another nonsense arises. I am in car B taking my new, very healthy pet cat home. My car is hit from behind by car A, causing my car to hit car C in front. The irate owner of car C confronts me regarding the damage to his car. I say, "Never mind about that, it was the driver behind me you should speak to, I need to check how my cat is in the boot (trunk for Americans)." To my dismay,

the cat is dead. Physicists should be well aware where this is leading. If past, present and future exist together, like Schrödinger's Cat, Beck's cat is both dead and alive. And the insurance company of the driver of car A will refuse to pay out in full, saying they have just read that past present and future exist together, so there is nothing that any of the driver's could have done to change these unfortunate, simultaneous events.

So are we to agree with such nonsense, or realise that all we do can effect both the near and distant future. Thank God that none of your current reality coincides with Christ's terrible sufferings on the cross, but is separated by the lives and deaths of many, who have made your lives totally different to what they might have been, by courage and sacrifice that would have been pointless if they had not changed the future, as Christ did massively, and so did they jointly, as in the defeat of Nazi Germany. Every birth changes the future. Every death changes the future. Your life is proof that these events are separated, unless you are happy to consider yourself dead and alive simultaneously, a possibility that might explain some lack of awareness of reality.

Robert F. Beck

16<sup>th</sup> February 2015 (relative to the spin and orbit of the planet)

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