

# THE MUON PARADOX AND THE TWIN PARADOX

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16th January 2019

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## ABSTRACT

The muon paradox and the twin paradox are the result of time dilation, but time itself doesn't dilate.

## INTRODUCTION

Einstein claimed that time dilates due to a change in gravity or a speed, and he based that conclusion on the rate of clocks. But time dilation is the result of a fallacy, time itself doesn't dilate. A clock doesn't produce time, a clock registers an amount of time in the form of seconds. The hands of a clock or the display of a clock are controlled by a clock mechanism, they cannot move/work without that clock mechanism. When the hands of a clock or the display of a clock run faster or slower then it's due to that clock mechanism, so that clock mechanism runs faster or slower in those situations. So when a clock runs faster or slower due to a change in gravity or a speed, then gravity or that speed only affects the clock mechanism. So gravity or that speed doesn't affect time itself, and that means that spacetime doesn't exist. That is how a clock works, physicists see the hands of a clock or the display of a clock as time and that is why they claim that time runs faster or slower when a clock runs faster or slower in a certain situation. Physicists will never claim that time stops when you remove the battery from a clock or when you cut the power to a clock in those situations, then they will say that the clock has stopped. So time dilation is a simple but devastating fallacy, time dilation is an unnoticed second dilatation. A clock forms shorter or longer seconds in certain situations because the clock mechanism works faster or slower, so time itself is not relative.

## MUON PARADOX

Muons have an average lifespan of 2.2 microseconds and that means that they should not reach the surface of the Earth, physicists claim that the muons are able to reach the surface of the Earth due to time dilation but that is incorrect. Time dilation is an illusion that is created by an unnoticed second dilation, physicists failed to see that a clock requires less or more time to form a second and that means that it creates shorter or longer seconds.

So the lifespan of a muon is much longer than we measure, it can cover a longer distance because the muon-microseconds are much longer than the Earth-microseconds. We cannot use the Earth-microseconds for a muon-measurement, because the microseconds dilate when a particle speeds up. So a muon-measurement requires longer microseconds, the 2.2 Earth-microseconds are much shorter than the muon-microseconds and that is why a muon is able to reach the surface of the Earth.

## TWIN PARADOX

The twin paradox is a thought experiment involving identical twins who age differently due to time dilation, one of those twins makes a journey into space in a high-speed spaceship and returns home to find that the twin who remained on Earth has aged more. But time dilation is an illusion that is created by an unnoticed second dilation, physicists failed to see that a clock requires less or more time to form a second and that means that it creates shorter or longer seconds. So we cannot compare the situations of the twins, the Earth-seconds of one twin are much shorter than the spaceship-seconds because the seconds dilate when the twin in that spaceship speeds up. So the twins will have the same age when they are reunited, and that tells us that time travel is impossible.

## CONCLUSION

The muon paradox is the result of the time dilation fallacy, we cannot use the Earth-microseconds for a muon-measurement.

The twin paradox is also the result of the time dilation fallacy, there will not be an age difference when the twins are reunited.

But the muon paradox and the twin paradox are just the tip of the iceberg, because if time is not relative then Einstein's theory of special relativity is incorrect (Vixra paper 1807.0181). And if time is not relative, then spacetime doesn't exist. And that means that Einstein theory of gravity is incorrect, and his theory of general relativity is partially incorrect (Vixra paper 1901.0184). And that has devastating consequences because most theories are intertwined with Einstein's incorrect theories, so most theories are incorrect as well.