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Testing the truth of special relativity. BHARAT CHAUDHARY, No Company Provided — I aim here to test the truth of time dilation and length contraction equations of special relativity with the help of Faraday's law that is expressed in two forms. Both forms give the induced emf in a loop by a changing magnetic flux. The first form contains only the time element, so we can test only the truth of time dilation equation with its help. The other one has both time and length elements, so we test the truth of the equations of both with its help. I have found that time dilation fails in the first test and both time dilation and length contraction fail in the second. I have developed an equation from the working of betatrons that shows that if time dilation really occurs, then the induced emf in the betatron orbit should increase with speed and it should exactly neutralize the effect of the increase of mass at all speeds and the betatron-electrons should move with a constant acceleration to any speed even beyond light's speed! But, it's not found to occur. Therefore, we conclude that time dilation doesn't really occur. This fact is confirmed by the second form of Faraday's law that fails both time dilation and length contraction equations as it shows unequal induced emfs on the two sides of the law which is incorrect.

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