

# How to Replicate NoEinstein's M-M Invalidation (is Copyrighted.)

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2008-01/msg04176.html>

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- *From:* NoEinstein <noeinstei@xxxxxxxxxxxxxx>
  - *Date:* Sat, 26 Jan 2008 09:03:59 -0800 (PST)
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Dear Math Junkies: Recently, this same post (copied below) was put on the sci.physics site. But not a single 'scientist' visiting there has been objective enough to write a few simple algebraic equations that INVALIDATE the 1887 Michelson-Morley experiment, AND take down SR and GR with it. Does 'math' carry a 'status quo bias', too? If any of you are patient enough to read and understand a math problem, and can solve such, you will surpass the objectivity of most of Google's post hoppers. By taking things just one equation at a time, you will begin to see why M-M failed--as I have done. -- NoEinstein --

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Are you good at algebra? Then, you might enjoy seeing if you can replicate NoEinstein's invalidation of the historic 1887 Michelson-Morley interferometer experiment. Such was seeking to measure Earth's velocity and direction in the cosmos. When the experiment was first conducted, it was assumed that there was an energy form called ether--even in the vacuum of space. If, by chance, light traveling in the direction of motion of the Earth was slowed in passing through the ether, then, the velocity of the Earth could be determined by how much the light's velocity had slowed. And the direction of motion of the Earth would correspond to the azimuth of the maximum slowing. But no interference phase changes were seen at any azimuth. So, the experiment was a failure... Many, especially A. A. Michelson, were miffed to understand why the experiment didn't work.

To have been a failure, the M-M experiment is considered by many to be the greatest scientific experiment of all time. Such is because the explanations of Lorentz and FitzGerald that "all matter contracts in the direction of motion" became the basis for Einstein's theories of relativity.

But what if matter doesn't contract in the direction of motion?

Of course those men, and Einstein, would be wrong. The author of this post, NoEinstein--who has a background in structural design--didn't believe that velocity could compress matter or make any structure or material contract. But he had to find an alternative explanation for WHY the experiment failed. His intuition told him that light, as with sound, speeds up when shined in the direction of motion of the Earth, and slows down when shined in the direction opposite to the Earth's motion. Would those two assumptions--that were never considered by

others—yield negative results for the M-M experiment, and without having to resort to... "contracting matter" due to velocity?

NoEinstein's simple algebraic disproofs, that he is hereby inviting others to replicate, will require an above average ability to visualize the M-M apparatus moving at various angles relative to Earth's velocity vector.

Once emitted from the light source, those rays will race around their individual, tee shaped, courses to be reflected by two mirrors—one normal, or perpendicular; the other the 45 degree beamsplitter, that reflects light at a 90 degree angle—till each light ray finally arrives at the target. A wave (crest or valley) reaches the target as a SINGLE timed event from emission to target. The next wave (crest or valley) completes another timed event, identical to the former, but has different values depending upon the azimuth to which the apparatus is oriented, relative to the Earth's velocity vector. Each light ray is actually a continuous TRAIN of evenly spaced photons of a single frequency. The TIME required for a single photon in either train to reach a mirror, or to reach the target, is the same as for any other photon in that train.

So, to simplify understanding, assume that just TWO side-by-side photons are simultaneously emitted from the source, each traveling its own unique, tee shaped course to the target. A schematic diagram of the Michelson-Morley experiment can be found in most encyclopedias, or on the WEB. For consistency, assume that the light source is in the -Y position on the crossed light paths; the 50% silvered, 45 degree beamsplitter is at the origin of X-X & Y-Y, and reflects LEFT, or toward -X, at the first reflection; perpendicular Mirror 1 is at +Y, and is equidistant from the center of the beamsplitter; perpendicular Mirror 2 is at -X, and is equidistant from the center of the beamsplitter; and finally, the target surface is perpendicular at +X, and is equidistant from the center of the 45 degree beamsplitter.

The light rays (or just those two photons) get to travel one of two light courses. Course 1 is: Source, through the half-silvered beamsplitter to Mirror 1; then, from Mirror 1 back to the 45 degree beamsplitter; then, from the 45 degree beamsplitter to the target (located on the front of the telescope). Course 2 is: Source to the 45 degree beamsplitter; then, from such to Mirror 2; then, from Mirror 2 the light reflects back through the half-silvered beamsplitter to arrive at the same target on the front of the telescope.

For the results of M-M to be negative, two photons emitted at the same instant from the source must reflect around their own tee shaped light courses and arrive at the target in the exact same amount of TIME regardless of the orientation of the apparatus relative to Earth's velocity vector. Important note: While the photons are in transit, the apparatus is constantly moving. The point of original "aim" of the light is to cross the centerline of the 45 degree mirror. The purpose of algebra is to calculate WHERE the 45 degree mirror will be when the photons reflect from such. Algebra is also needed to calculate how far each photon must travel to reach a given moving mirror and the moving target. How fast are those moving? Of course it depends upon the orientation relative to the velocity vector

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of the Earth. There are 360 degrees of possible apparatus orientation to consider. But first consider just the four orthogonal orientations. Since there are two light courses, that means you must do eight algebraic calculations of the TIME to the target; and do eight accrued algebraic calculations of the total distance the light must travel. Done correctly, the TIME calculations will all be the same, while the DISTANCE calculations will be longer or shorter than the measured size of the apparatus.

Consider that each of the four legs of each course is length unity, or 1. To simplify calculations, assume that the velocity of light  $c$ , also, is unity or 1. And assume that Earth's velocity is .01 (of  $c$ ), and that the apparatus will move a maximum of .01 in the time it takes a photon to travel just one leg of the four legs to the target (as measured when at rest). Re read the above while looking at a schematic diagram of M–M. Most Important: Remember that the apparatus is MOVING while the photons are in transit to a particular mirror, or to the target. Check your algebra for each orientation before considering the next orientation (90 degrees clockwise or counterclockwise as you wish). Good luck to everyone!

Respectfully submitted, — NoEinstein —  
Other posts of mine beginning in 2007:

Where Angels Fear to Fall

[http://groups.google.com/group/sci.physics/browse\\_frm/thread/8152ef3e...](http://groups.google.com/group/sci.physics/browse_frm/thread/8152ef3e...)

Last Nails in Einstein's Coffin

[http://groups.google.com/group/sci.physics.relativity/browse\\_frm/thre...](http://groups.google.com/group/sci.physics.relativity/browse_frm/thre...)

Pop Quiz for Science Buffs!

[http://groups.google.com/group/sci.physics/browse\\_frm/thread/43f6f316...](http://groups.google.com/group/sci.physics/browse_frm/thread/43f6f316...)

An Einstein Disproof for Dummies

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/f7a63...](http://groups.google.com/group/sci.physics/browse_thread/thread/f7a63...)

Another look at Einstein

[http://groups.google.com/group/sci.physics/browse\\_frm/thread/41670721...](http://groups.google.com/group/sci.physics/browse_frm/thread/41670721...)

Three Problems for Math and Science

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/bb07f30aab43c49c?hl=en](http://groups.google.com/group/sci.physics/browse_thread/thread/bb07f30aab43c49c?hl=en)

Matter from Thin Air

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/ee4fe3946dfc0c31/1f1872476bc6ca90?hl=en#1f1872476bc6ca90](http://groups.google.com/group/sci.physics/browse_thread/thread/ee4fe3946dfc0c31/1f1872476bc6ca90?hl=en#1f1872476bc6ca90)

Curing Einstein's Disease

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/4ff9e866e0d87562/f5f848ad8aba67da?hl=en#f5f848ad8aba67da](http://groups.google.com/group/sci.physics/browse_thread/thread/4ff9e866e0d87562/f5f848ad8aba67da?hl=en#f5f848ad8aba67da)

NC Buries Head in Sand to Einstein Disproofs

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/ca7733d51c0d6ec0/d68a772ab0b32c8f?hl=en#d68a772ab0b32c8f](http://groups.google.com/group/sci.physics/browse_thread/thread/ca7733d51c0d6ec0/d68a772ab0b32c8f?hl=en#d68a772ab0b32c8f)

NC Governor Should Resign Over Science

[http://groups.google.com/group/sci.physics/browse\\_thread/thread/2e892e00156d4d92?hl=en#2e892e00156d4d92](http://groups.google.com/group/sci.physics/browse_thread/thread/2e892e00156d4d92?hl=en#2e892e00156d4d92)

ATTENTION: Those of you who are interested in discussing the various moot points of Einstein's theories, or the off-shoots of his "reasoning", are invited to view the various posts of — NoEinstein — shown above. I have conclusively disproved Einstein both mathematically and experimentally. Those of you wishing to reply to any point of science, are urged to do so in the most recent post(s), because the earlier ones, though still quite apt as to the science,

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are no longer being checked for comments. I hope that you will find my links both interesting and educational! -- NoEinstein --