Title -

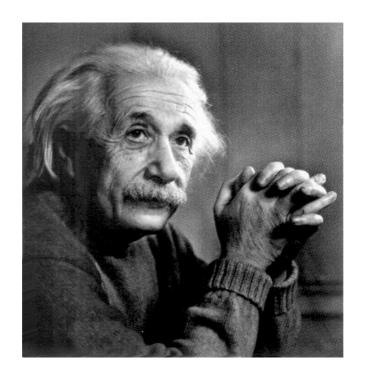
Misner/Wheeler correct about Einstein's Unified Field Theory being successful

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Abstract -

In 1957, Charles Misner and John Wheeler, in the "Annals of Physics", claimed Albert Einstein's latest equations demonstrated the unified field theory. It has been argued that the gravitational fields, if known everywhere but only for a limited time, do not contain enough information about their electromagnetism to allow the future to be determined, so Einstein's unified theory fails. Physicists also argue that a unified "theory of everything" must now include not just gravity and electromagnetism, but also the weak and strong nuclear forces plus dark matter and dark energy. This article claims Misner and Wheeler were correct, and addresses all modern objections.



Content -

It is my belief that Charles Misner and John Wheeler were correct in 1957 when they said Einstein was successful in proving his Unified Field Theory. Einstein successfully proved the Unified Field Theory, combining gravitational and electromagnetic equations. Despite what modern science mistakenly thinks, this means everything (electromagnetism, time, space, matter, dark matter, dark energy and the nuclear forces within atoms) has no separate existence from gravitation.

In the 19th century, Scottish mathematician and physicist James Clerk Maxwell

unified electricity and magnetism into electromagnetism. Albert Einstein's equations say that in a universe possessing only gravitation and electromagnetism, the gravitational fields carry enough information about electromagnetism to allow the equations of Maxwell to be restated in terms of these gravitational fields. This was discovered by the mathematical physicist George Yuri Rainich (1886 -1968).

England's Professor Penrose has argued that the gravitational fields, if known everywhere but only for a limited time, do not contain enough information about their electromagnetism to allow the future to be determined, so Einstein's unified theory fails. But I have faith in Einstein. So I used an approach to understanding unification which does not rely on mathematics alone but largely depends on visualization combining subjects like physics, cosmology, quantum mechanics and computer science. This makes it clear that all time is unified with the gravitational and electromagnetic fields - meaning the gravitational fields are not known for only a limited time, they do contain enough information, and Einstein succeeded!

Of course, this was merely my own approach. Einstein had one too, and it's well exemplified by the quote he made at the funeral of his engineer friend Michele Angelo Besso (1873 – 1955): "Now Besso has departed from this strange world a little ahead of me. That means nothing. People like us, who believe in physics, know that the distinction between past, present and future is only a stubbornly

persistent illusion".

Physicists also argue that a unified "theory of everything" must now include not just gravity and electromagnetism, but also the weak and strong nuclear forces plus dark matter and dark energy. Although the nuclear forces weren't well understood in Einstein's day, I believe Einstein understood them better than any other scientist (both then, and in the nearly 60 years since his death) and was correct not to worry about including them in a unified theory. The title of one of his papers "Do Gravitational Fields play an Important Role in the Constitution of the Elementary Particles?" suggests that Einstein's understanding of the nuclear forces may have been that they have no existence independently of gravitation.

Taking a supportive role to Dr. Einstein once again; I similarly concluded that matter, antimatter and every form of energy (as well as the strong and weak forces) have no existence independently of gravitation and that gravity, being the warping of space-time, is the unifying foundation of all things. There's no need to go into detail about my conclusions since they're merely one individual's approach to revealing what the Master of Science began discerning nearly a century ago. When forced to summarize the general theory of relativity in one sentence, Einstein said: time and space and gravitation have no separate existence from matter.

How is the gravity made? I believe it's made by electronics' binary digits in a 5th

dimension. I know that sounds like science fiction, but it's using computer science's binary digits to combine General Relativity (Einstein's theory of gravity and spacetime) with quantum mechanics (the subatomic world of elementary particles and forces) and also with an extra dimension proposed by modern physics' string theory. This takes the reader full circle in her or his exploration of nonlinear dynamics - and she or he will see that electromagnetism, though a modification of gravitation, is the source of gravitation too. Dark matter and dark energy are also explained in terms of gravitation, time's nonlinearity and binary digits.

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