

## Kaluza Klein Theory Hermann Weyl

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In 1919, the German mathematician Theodor Kaluza developed a theory that maintained all the formalism of Riemannian geometry but extended the geometry's reach by proposing the possibility that Nature in fact utilized a 5-dimensional spacetime, with electromagnetism appearing as a natural consequence of the unseen 5th dimension (the same idea was actually proposed by the Finnish physicist Gunnar Nordström in 1914, but was ignored).

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The unification attempt by Hermann Weyl (1885-1955) in 1918, finally, was to apply a gauge transformation within a four-dimensional space with a generalized non-Riemannian metric [10]. Although Nordström was the first to introduce a five-dimensional space, it was Kaluza's

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theory from 1919 that proposed a realistic unification of the two interactions.

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Hermann Klaus Hugo Weyl, ForMemRS (German: ; 9 November 1885 - 8 December 1955) was a German mathematician, theoretical physicist and philosopher. Although much of his working life was spent in Zürich, Switzerland, and then Princeton, New Jersey, he is associated with the University of Göttingen tradition of mathematics, represented by David Hilbert and Hermann Minkowski.

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Weyl was a fan of Hilbert and one of the first researchers in general relativity. He can be credited for the concept of "gauge" and "gauge theory", at least in the context of Abelian gauge theories. Weyl also wanted to unify general relativity with electromagnetism by extending the gravitational connection with a non-compact  $U(1)$  gauge connection.

~~The Reference Frame: Hermann Weyl & Theodor Kaluza: 122th ...~~

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One of the topics covered in the book was Weyl's idea that gravity and electromagnetism might both be derivable from a generalization of Riemannian geometry, the mathematical basis from which Einstein had developed his relativity theory. Weyl's idea was based on a new mathematical symmetry that he called gauge invariance.

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This point of view, called the Kaluza-Klein theory (Theodor Kaluza made the first steps after Weyl) is now generally accepted. Moreover, it is just the first stage in the enlargement of ordinary space-time. To include the other nuclear forces we need even more dimensions and current research centres on a total space-time dimension of 10 or 11.

~~Hermann Weyl | Biographical Memoirs: Volume 82 | The ...~~

Scientists who worked on this problem include Hermann Weyl, Theodor Kaluza and Oskar Klein. Einstein's first paper on the theory was in 1922, echoing work that was published by Kaluza in 1921.

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From Weyl's version of metric tensors to Kaluza's Fifth Dimension to Eddington's Affine connection, there were many attempting to build a Unified Theory. General relativity equations use a mathematical structure called metric tensors, which Hermann Weyl tried to incorporate in his Unified Field Theory. (Image: Photomontage/Shutterstock)

~~Early Research on Unified Field Theory~~

Kaluza-Klein Theory. July 2009; DOI: 10.1007/978-3-540-70626-7\_103. In book: Compendium of Quantum Physics (pp.328-331) ... The unification attempt by Hermann Weyl (1885-1955) in 1918, finally ...

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Kaluza-Klein Theory In physics, Kaluza-Klein theory (KK theory) is a classical unified field theory of gravitation and electromagnetism built around the idea of a fifth dimension beyond the usual four of space and time and considered an important precursor to string theory. Gunnar Nordström had an earlier, similar idea

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The two men differed in many ways - Hermann Weyl was a broad, prolific mathematician while Theodor Kaluza was a typical one-hit wonder (you might say that this is an excessively unflattering description of a man who spoke 17 languages and claimed to prefer Arabic) - but when it comes to the birthday and the unification of gravity and electromagnetism, you would have a hard time to look for two mutually non-interacting people who were closer to one another.

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~~The Reference Frame: Kaluza and Weyl: adding  $U(1)$  to GR~~  
HERMANN WEYL AND THE EARLY HISTORY OF GAUGE THEORIES, in "Symmetries in Algebra and Number Theory", contributions to "On the Legacy of Hermann Weyl", p.173, Universitätsverlag Göttingen, 2009.

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Kaluza-Klein Induced Weyl Invariant Effective Theory W. F. Kao  
Department of Electmphysics, Chiao Tung University, Hsinchu 30050,  
Taiwan, R.O.C. (Received November 6,1991) All dimensional parameters  
in most gravitational models can be promoted to dimensional field  
variables which can be embedded in some higher dimensional Kaluza-  
Klein vielbein. An

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