

Four Potential Gravitation amended

Dr. Hartwig Poth

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By Poth, Hartwig

Book Condition: New. Publisher/Verlag: epubli | Gravitation is derived from four rest mass current density with new field equations. | In the present amended theory the gravitation potential is considered as a four potential like the electromagnetic four potential but being subject to field equations different from Maxwell's. The new source term is the four rest mass current density like the four electrical charge current density in the electromagnetic theory. The Mercury perihelion like some other effects known from general relativity can be calculated likewise. Gravitational radiation can be calculated only up to a constant factor which is to be taken from general relativity. The gravitational four potential couples also to the antiparticle component of a moving rest mass particle. Thus, Einstein's general theory of relativity still being based at the time of its conception on the classical single particle concept seems to be inappropriate. The spin of the gravitational field is zero. Moreover, with the Dirac equation a relativistic quantum mechanical equation of gravitation is obtained. The gravitational four potential obviously can be quantized. In principle, it can interact with the spin of the electron. However, free gravitational waves can not interact with the spin of the electron, also...



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