

Abstract Submitted
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Limited Weak Equivalence Principle FLORENTIN SMARANDACHE, Univ of New Mexico — The Weak Equivalence Principle is not Quite Equivalent at the Macro level. The weak equivalence principle should be renamed as “limited weak equivalence principle” or “partial weak equivalence principle” since it is not always valid. It is said that the equivalence weak principle (of gravitation and acceleration) works only on small enough region and only within a certain limited accuracy. But it is too infintedecimal in order to be (grosso modo) applied at the macrocosmos level. But these restrictions are so strong, that many other principles may work at such small scales. Would the equivalence principle work for quantum gravity? We mean is quantum gravity equivalent to a quantum acceleration?

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