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A Simple Method to Calculate Time Delay Due to the Sun Gravitational Field

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Although some experimental and theoretical methods have been discovered to measure time delay of a beam of light passing close to the Sun caused by its gravitational field, one interesting subject is still remained that could be under consideration; this is difference between times derived from Schwarzschild metric and what is shall be recorded if no gravity affects. This difference is dealt with as a hypothetical metric. It is obvious that in reality space is not flat and gravitational field impacts spacetime; however, assuming and considering a flat spacetime and analyzing its difference from Schwarzschild metric helps to understand how much time is delayed due to General Relativistic effects of objects of the universe. What is calculated in this paper is the amount in existence of the Sun alone. Effects of entire the universe could be subject of future studies.

Biography

Ehsan Bashiri has pursued his masters from PUT (AIT) Iran. His expertise is in Engineering field, mainly Environmental & Chemical Engineering; however he is interested in Physics since 2000 while reading Einstein Theories of Relativity. This leaded him to study Physics principles in college and continue it every free time.

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