

On the quantum decomposition of the planet Mercury's orbit path

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Sunday 2nd June, 2024 20:54

Abstract

By quantizing the gravitational time dilation using various step sizes, one obtains a set of weighted paths. The precession associated with each weighted path combines to provide the same answer as the classical analytical solution.

1 Introduction

Step size in general is 2^{-m} where m is the number of mantissa bits.

References

- [1] Halayka. On simulating the four Solar System tests of general relativity using two-parameter post-Newtonian gravitation with Euler integration. (2024)

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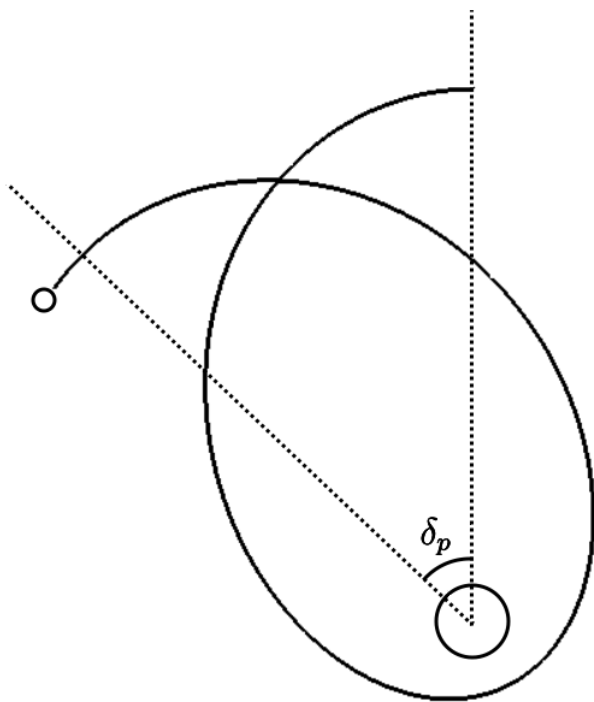


Figure 1: A diagram showing precession, where the orbit does not quite form a closed ellipse.