A Proposed Mechanism for Quantum Gravity Transmission

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Abstract

This note postulates the existence of a fabric of space with certain characteristics. The characteristics provide the basis for a mechanism that transmits quantum gravity.

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1. Space Fabric Description

The postulated space fabric consists of a network of three strands connected at a common juncture across which events are transmitted. Each strand has its own embedded clock rate. At a physical level the gradient of the embedded clock rates determines gravitational acceleration.

Consider one of the three stands to have an incoming clock rate that transmits across the common juncture to one of the other two strands and affects the outgoing clock rate. The incoming clock rate runs slower due to its closer proximity to a gravitational source.

Assume that clock rate transmission events can only occur between strands at certain discrete clock rate ratios.

2. Clock Rate Event Transmission

In the presence of incoming transmission events with an absence of an outgoing transmission event, the clock rate of the incoming space strand incrementally keeps slowing.

As the incoming space strand keeps slowing, it eventually matches an allowed discrete clock rate ratio of one of the outgoing space strands. A transmission event occurs. This event speeds up the clock rate of the incoming space strand and slows down the clock rate of the outgoing space strand. This leaves one of the outgoing space strands running at a slower clock rate while the other outgoing space strand continues with its clock rate unaffected.

The clock rate of the incoming space strand was speeded up from the outgoing transmission event that occurred. The incoming space strand again keeps slowing from predessor events. It eventually matches an allowed discrete clock rate ratio with the previously unaffected outgoing space strand. This triggers an event between the incoming space strand and the previously unaffected outgoing space strand.

This clock rate event transmission allows for the transmission of events in multiple directions in a synchronized manner with clock rates that differ between adjacent strands of space.

3. Discrete Clock Rate Ratios Allowed

This note relies on the clock rate transmission events occurring in packets of a size that facilitate matching allowed discrete clock rate ratios. It is not obvious that this would necessarily happen.