

1.1. Artificial Faster-Than-Light Speed

Artificial wormholes creation still is theoretically possible. By emulating an environment similar to the one outside our galaxy we will see a light beam breaking that barrier once again.

Assuming we have two spaceships where one is located in the same ambient gravity field as the observer and the second one residing inside an artificial wormhole. The tube here will protect the guest ship from its external gravity density from start to its end. The crafts have instant propulsion reactors and will start a race at the same mark. The external observer who in turn has the task of waving the flag that will determine the starting mark in question:



FIGURE 1 Stationary spaceships in different gravity densities

What will happen in these circumstances is shown as follows after the ships are propelled using the exact same force:

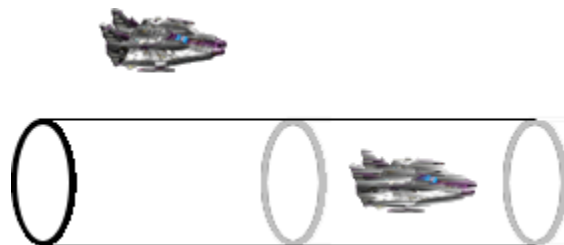


FIGURE 2 Moving spaceships of identical thrust

The pictures sketch a potential application of gravity manipulation in order to achieve faster than c local trips. No GR rule is broken since the enclosed ship is subject to a greater gravitational time contraction and thus its local clock will run faster as well. Hence the driver will perceive his own speed as perfectly normal and will in turn notice the external ship running much more slowly.