

**SCENARIO OF A330 AIR FRANCE PLANE CRASH:
THE PHYSICAL CAUSE**

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In this work we shall introduce the scenarios of the A330 Air France Plane crash. These laws that made the crash depend on the physical laws of the New Relativity theory [10] and Quantum theory. Our work will give us the right direction to avoid nature cheating on us in the future, especially in flying.

The first Scenario:

The physical cause of the first scenario of crash the A330 Air France plane according to our work refers to the plane entering inside quantum tunneling space. This tunneling space is formed in special physical situations by nature. The interpretation of what occurred when the plane entered this quantum tunneling space is given by the New Relativity theory and Quantum theory [10, 21].

Now let us assume that our plane is started its trip from Rio de Janeiro, and after it passed the distance 650 km, it entered the quantum tunneling space. We got from the news that within 5 minutes, the watches of the plane read incorrect speeds and readings. Also, two male bodies were recovered about 70 kilometers south of where Air Flight 447 emitted its last signals. That means, if we proposed that this distance is cut by the plane in 5 minutes, thus its velocity was V' where

$$V' = \frac{70}{5/60} = 840 \text{ km / h}$$

It is know from the paper of (quantum tunneling and time contraction according to the new relativity theory by Azzam Almosallami [21]) and the experiments of quantum tunneling which were done later [1-5], that if a plane entered inside a quantum tunneling space then its velocity should be increased by a factor of γ . That is referring to the measured distance inside this tunneling space, where according to the new relativity theory [10, 21], if an observer out of this tunneling barrier (in the airport for example) registered that the plane is at a distance Δx inside the tunneling space, then for an observer inside the tunneling space the plane is at distance $\Delta x'$ where

$$\Delta x' = \gamma \Delta x \quad (1)$$

Thus from equation (1), if the plane entered inside the tunneling space, thus the travelled distance for the plane should be increased by a factor of γ , and thus its measured speed should be increased by a factor of γ .

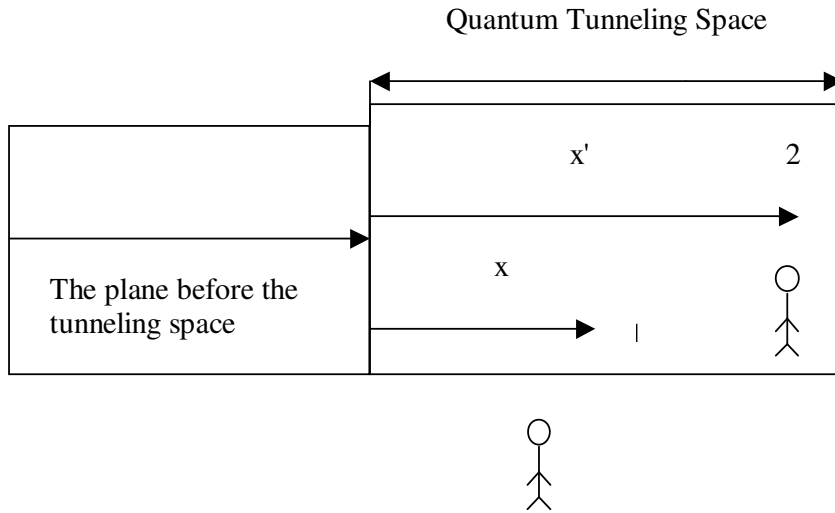


Figure (1): illustrates the plane when entering inside a quantum tunneling space, ray (1) illustrates the location of where the plane should be in a normal motion with speed V for the observer in the airport. Ray (2) illustrates the location of the plane when it entered the quantum tunneling space where the measured distance for the observer inside is x' where $x' = \gamma x$ and thus its measure speed is V' where $V' = \gamma V$.

Now when the plane sends a signal to the airport, it will send this signal from location x' , and then we shall think that its velocity is increased, where it should be at x not at x' . And this why the readings that were taken from the A330 Air France plane were wrong.

But what is the cause that made the A330 Air France plane crash? The answer is according to the new relativity theory [10, 21] the pressure inside the tunneling space is less than outside by a factor of γ^{-1} . Where

$$p' = \gamma^{-1} p \quad (2)$$

The pressure that was exerted on the plane before entering the quantum tunneling space was p , and thus the pressure inside the plane was arranged to equate with the pressure outside. Now when the plane entered inside the tunneling space, the pressure inside this tunneling space is less than the pressure of the space before by a factor of γ^{-1} . And since the pressure inside the plane is arranged to equate with pressure more than p' , the pressure of the tunneling space. That made the plane crash after 5 min of entering the quantum tunneling space.

Second Scenario:

The second scenario is to entering the plane inside a huge potential space, that means the velocity of the plane should be decreased by a factor of γ^{-1} , where the velocity of the plane inside this space is V' where

$$V' = \gamma^{-1}V$$

Also the pressure inside this space should increased by a factor of γ , where the pressure inside is p' , where

$$p' = \gamma p$$

And since the pressure inside the plane is modulated to be consistent with normal pressure outside, which is less than the pressure inside the space entered, thus when the plane entered this space, it should crash. If we would like to understand if this plane is entered inside a huge potential space or inside a tunneling space with less potential, we should study the way that the crash took place. If it entered inside a tunneling space the explosion should go outward, and if it entered a huge potential space, then the explosion should be inward.

Summary:

The mistakes of readings from the computer of A330 Air France plane 447, is produced by the perturbation in the space-time of the space that the plane entered. But the crash is produced by the difference of pressure outside the plane. This pressure difference is produced by the space-time perturbation.

The laws that describe the perturbation in space-time space is controlled by the new relativity theory [10], and quantum tunneling [21].

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