

“There is no time lag”, As told by Simon to Aditya.

In the previous note we discover that when the complete information for a system is known it often leads to deterministic shutdown if it has not already happened. The deterministic shutdown tries to talk about natural phenomenon by nature itself.

## Myth of Isolation

For the study of natural phenomenon physicist have been known to assume the system at hand to be isolated. This assumption works but, is seen to be not working exactly. Not just there is a practical problem to this assumption but, there is a logical problem. In reality one cannot isolate a system and if that is done then all the external interactions with the system comes to the an end. Often the observer is supposed to be external to the system, that's why measurement is the problem in Quantum mechanics. Otherwise the changes emerging due to the measurement process would not have been a problem. This is because the study would have consumed the observer as an integral part of the system and made it internal than external. This leads to the problem that we may know everything about the system but, not the observer. The system may have reached its shutdown but, it is the observation that keeps the system alive, this is also illustrated in cat's paradox. It is the myth of observation that destroys deterministic shutdown.

## Is Nature observing itself?

If natural aliveness is dependent on the observer's observation and this is what keeps the nature alive then nature is naturally dead. But, death is another observation, isn't it? Hence, nature is neither alive nor dead, it is the myth emerging due to observation. Nature interacts within itself and if observer is no different than the un-isolatable nature by being a dependent sub-part, then the assumption of isolation is too strong and too wrong. Nature observes itself, which is what is interaction but, nature does not feel that it is differentiated, the mountain do not see itself as different than the river flowing through it. It is the limitations (or delimitation) that observer marks to mark pseudo boundaries in the system. These pseudo boundaries provides an incapable region to define the system exactly.

## The problem with measurement.

The observer marking pseudo boundaries for isolation in order to measure is not unnatural but artificial. The myth here is that defining the system with the pseudo boundaries shall yield exact understanding and it does not happen, hence uncertainty (both quantum and classical). Yes, nature is interacting with itself and since the observer is natural it brings the notion of nature observing itself. This brings richness to the cat's paradox, that the outcome is dependent on the observer. If the observer is not completely self-aware this shall introduce uncertainty as observer cannot really know the bias induced in the system due to observation. Every observer shall have its own identity (not mathematical identity, but it is related) and this notion of self identification provides the observer this myth of isolation. Taking the limits we shall arrive to the conclusion that an observer must forgo all their identity in order to dissolve the notion of isolation. Hereby, the un-isolated observer becomes notion-less and this leads to an exact measurement.

## Natural problem solving.

Nature in its natural evolution is not solving any problem rather it's only accepting the exact measurements as when it is not isolated why should it progress with the myth of isolation. To illustrate this natural phenomenon I propose the reader to imagine an examination hall. Let's assume two students are giving the examination and one of them has already solved the problem. The other one still needs to figure out the solution. In order to be correct and under-confident of being able to figure out the solution within the given time, the other student decides to cheat and copy the answer from his colleague. This is seen cheating but, it is a natural phenomenon. We call this cheating as we have isolated students into two, whereas they are still part of one connected system. So nature doesn't see this process as cheating but, this is the natural evolutionary route.

## The natural solution is solution itself.

Since, the nature is not isolated, measurement is no longer a natural problem. And whatever the problem is the best solution shall be the natural solution which is the solution itself. This is because nature is composed of both the problem and the corresponding solution but, it cannot differentiate between the two. It is the observer that draws artificial boundaries begins this differentiation and in his own lack of self-awareness tries to make a measurement, making it a problem.

This can be illustrated by doing a mental exercise. I urge my readers to imagine a chair. Now carefully understand that there was no mental time lag for the brain to create imagery of the chair. When the image was made it was **instantaneous**. The images will be different in all of our minds but, it came instantaneously which breaks causality. This is because no measurement/computation was performed at the mental level rather it was a **spike** as the natural brain followed the best solution.