

# BORN AS SPIRAL DIE AS SPIRAL

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## What is death then?

In a timeless universe the cosmic structures of different scales, from the largest to the smallest size, have existed always as expressions of the existence of the Being, who is never born and never dying. In this ever existing reality, that appears as the universe, which we observe, the individual objects are all ephemeral. They all come and go as dance of life and death in order to renew the universe everywhere in all scales. The destinies of the individuals are orchestrated to fit into the eternal waltz of existence where things appear and disappear here and there to renew everything again and again, without disappearing for ever into nothing, or appearing from nowhere and nothing.

Everything, that we observe, are parts of the same whole, which enacts the dance of life and death by using a universal dynamics encoded in a three-armed spiral structure. The universe itself is the ground of existence of the spiral and inseparably one with it. The spiral embeds smaller and smaller spirals, in smaller and smaller scales, and exists as the all pervading entity that permeates every places in all corners of the universe. So nothing can escape the dynamic force that is encoded in the three-armed spiral form, which creates things from its womb and draws everything to its womb again.

## Why the dance of life and death?

Through this dance of life and death the universe can renew and regenerate itself everywhere, which is a necessary condition for all to be able to follow the universal dynamics and replicate the large into the images of the small. This unique way empowers the universe to remain a self-creating being, which rises into existence from its own death and decay. This mechanism provides the ability to draw to itself all that are being created in its womb and thus sustain an eternal pattern in all that exist. In this ever recurring process, death brings the seeds of life, and life provides the mechanism to release energy into things and keep the dynamics of the individual dancers going until their energy is exhausted, and the dancers return to source, from where they had risen, to fetch more energy once again.

## Fine tuned rhythms

Every dancer must follow the fine tuned rhythms of the orchestra and dance in steps following the steps of all other dancers, however large or small. Those who fail to maintain this rhythm must leave the dancing floor. The universe has tuned everything with the amount of energy that the dancers produce. Those dancers, who go out of steps and fail to keep a tight rope balance between what comes in and leaves the place, are removed from the stage. Thus they become short lived participants in the drama of life and death.

Those, who can follow, according to the plan of the composer, the fine tuned rhythms of production and consumption of energy that can sustain the existence of themselves, as well as the whole to which they are parts, enjoy longer role to play on the cosmic stage.

### **Three-armed spiral as the wand of creation and destruction**

In the previous lectures I have discussed how the cosmic structures take births and evolve following a universal mechanism starting from a three-armed spiral form and mediated by the interactions of incoming and outgoing flows. There exists a universal way by which the streams emerge as outflow from the centre, following the arms of the three-armed spiral structure sitting at the centre. Then these flows return back towards the centre after merging with the outer streams. The balance, or the imbalance of the inflow and outflow with the energy outpouring from the object decides whether the cosmic structures will enjoy a short violent life, or a long normal rhythm of life and death.

### **Dissipating shells follow dramatic, or undramatic events**

The structures form and evolve with the help of shells which surround the core. These shells act in channeling the outflow as inflow so that the structures may self-regulate the inflow and outflow and stabilize their formation. Once the structures are able to sustain stable form, the roles of the outer shells, which surround the structures as protective cocoons, come to end. Then these shells are blown away by the winds emerging from the objects.

The disruptions of the shells may occur both in dramatic and undramatic manner. In undramatic case ring-like structures separate from the core and gradually move away as flying outer layer of onion skins. The dramatic events are followed by ejections of structures, from where smaller cosmic objects take births. In these cases the shells split away into two crescent shaped envelopes and are flung in two opposite sides of the structures.

In less dramatic events the outer shells get disrupted and blown away while the core settles into more compact structure. In extreme cases, where the structures fail to achieve stable configurations, the inner cores explode creating catastrophic cosmic events. Such events are observed as supernovae and gamma-ray bursts.

### **A graveyard of spiral structures**

Most cosmic objects do not end their life in such catastrophic events. The majority of the cosmic bodies enjoy stable long life before undergoing a normal slow process of death. In this normal process the structures gradually lose their outer shells one after another, like onion skins being peeled off one after another while revealing deeper and deeper regions of the core.

Thus a blue young vigorous star, burning lighter atomic elements in the outer shells, turns into old red star burning heavier elements in the few inner shells, which may have still remained intact. The old dwindling stars, which have used up most of the energy supply, pass into death by gradually puffing away the shells that still surround the inner spiral structure. In the end the spiral, lying in the centre, which has been the foundation of all activities, itself starts disintegrating and falling apart. It disintegrates by creating debris of smaller spiral structures which fill the graveyard of the cosmos.

These spirals again return as seeds to regenerate the universe from its ashes.

