The Fundamental Order of the Universe

Thinking Outside the Box

 Joely R.Villalba

 (© in progress)

It has been scientifically acknowledged that the Universe is made up of 27% Dark Matter, 68% Dark Energy, and 5% Normal/Ordinary Matter. It has also been scientifically acquiesced that the evolvement of Normal/Ordinary Matter came forth due to the combination of 3% Dark Matter and 2% Dark Energy. These percentages would infer that prior to the onset of Normal/Ordinary Matter, the Universe was made up of 30% of Dark Matter and 70% Dark Energy. These numbers would infer that 100% of the Universe is made up of a specific number/total amount of singular entities of Dark Matter and of Dark Energy. Where, the numerical precision of these percentages was perceived to accordingly denote the mathematical rigors inherent to logical reasoning. As such, these percentages could perhaps be the earliest manifestations of a pre-determined fundamental order of the Universe.

In accordance with the above premises, what have been identified as Dark Matter and Dark Energy were the first two singular entities in existence at the very beginning of the Universe (from 0 to 10-12 seconds). As such, they have been acknowledged as the two fundamental constituents of the Universe and to, in addition, have brought forth the onset of the first singular entities of Normal/Ordinary Matter as the third singular entities in the Universe (from 10-12 to 10 seconds). Where, despite the progressive evolution of all singular entities of Normal/Ordinary Matter from then on, their presence would not -at any one moment- alter the specific number/total amount of Dark Matter and Dark Energy that would always exist in the Universe.

It then followed to tentatively conceptualize their distinctive presence in the Universe. Distinctive presence, that has been scientifically accepted to have ensued in the immediate aftermath of an ineffable explosion/singularity known as the Big Bang. The Universe, as the existence of singular entities under parameters of physical nature. Please note that in accordance with the Big Bang theory, the colossal amount (100%) of singular (physical) entities at the very beginning of the Universe (30% infinitesimal specks of Dark Matter and 70% infinitesimal packets of Dark Energy), simultaneously ensued at a very tiny point in space (marking the onset of physical space), and at a specific moment in time (marking the onset of physical time). Thereby, the physical nature of the Universe -at its very beginning- was conveyed by manifestations of extreme density (physical Matter) and heat (physical Energy). It was also deemed of most importance to acquiesce that after the onset and throughout the periodical evolution of Normal/Ordinary Matter (5%), Dark Matter (27%) and Dark Energy (68%) have continued to -as such-, exist.

Thereby, it could be said that the ongoing interrelationships between their distinctive physical properties would inherently delineate the mathematical precision, of those Major Laws of Physics that have been scientifically deemed to sustain the fundamental order/evolution of the Universe. Along this order, the explicit presence of singular entities of Dark Matter and Dark Energy, would each convey manifestations of those distinctive properties elucidated to be foundationally intrinsic to the physical nature of the Universe. These same properties would have to, in turn, be conjunctively and quantally conveyed by the presence of all singular entities of Normal/Ordinary Matter. Hence, in a way, Dark Matter would be best referred to as singular Matter entities, Dark Energy as singular Energy entities, and Ordinary/Normal Matter as singular Energy-Matter entities.

At some point along the search to recognize the distinctive physical properties being procured, it became significant to elucidate their presence in accordance with those manifestations perceived to convey measurable characteristics capable of defining the objective reality/existence of singular entities, and to -in addition- be inherently relative to the substance-power duality of universal existence. Thereby, they were hypothetically identified as follows:

 Matter Energy

 (Substance) (Power)

 1. Mass 1. Charge

 2. Space 2. Field

 3. Time 3. Motion

Upon further reflection, the distinctive physical properties of Matter were conceptualized as ‘particle’ properties, and those of Energy as ‘wave’ properties. As such, it could be proposed that all singular Matter-Energy entities bear the particle-wave duality and will, in accordance with the surrounding circumstances, manifest those characteristic variables significantly denoting either their particle or wave properties.

Please note that Mass and Charge (electric) were significantly chosen because, just as Matter and Energy, they cannot be created nor destroyed; nor can they exist without each other. Hence, their amount in the Universe cannot be increased nor decreased.

In order to furthermore uphold the feasibility of the proposed arguments, the endeavor marking the correlation between the periodical time frames delineating different eras of universal evolution and the periodical evolvement of singular Matter-Energy entities, will be discussed in the upcoming paper titled “The Physical Nature Governing the Evolution of the Universe; Thinking Outside the Box”.