## A New Explanation for the Helical Motion of Celestial Objects (Moons, Planets, Stars, Galaxies, etc.) in Relation to the Einstein-Rosen Wormhole Theory in the Universe

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Looking at our own Moon, it's clear that it orbits the Earth, which in turn orbits the Sun. If an observer were to view the Moon and the Earth together, they would see both moving around the Sun. The Earth's path is a closed curve, returning to its starting point after a year. In contrast, since the Moon orbits the Earth while also orbiting the central Sun, it's straightforward to conclude that the Moon follows a simple helical path.

Now, if we consider the motion of the Sun, which is orbiting the supermassive black hole at the centre of the Milky Way galaxy, the Earth follows the Sun in its path as it orbits in a closed curve. When an observer considers the motion of the Earth and the Sun within the galaxy, they can undoubtedly demonstrate that the Earth has a helical motion. We can now express this rule in a general way: whenever a celestial object, such as the Moon, other moons, planets, stars, galaxies, or anything else, has 'n' orbits, one can easily show that we can consider it to have n-1 helical paths.

Given that the Milky Way galaxy belongs to a higher-level structure called a cluster or even a supercluster, it's easy to show that, in addition to its closed curve motion within a cluster, the Milky Way can have more helical paths. For example, to explain this simply and clearly, within the Milky Way's system, a moon like our own has at least two helical motions: one orbiting the Earth, another orbiting the Sun, and a third around the Milky Way's galactic centre. Similarly, the Earth has at least one helical motion within the Milky Way. Since our galaxy and others have higher-level paths, they can create in clusters or superclusters, it's safe to say that galaxies must also possess helical motion.

Based on the above discussion, it can be said that all celestial objects, from the smallest to the largest, have an inherent helical motion.

## **Conclusion:**

If we consider a galaxy, all of its constituent parts, small and large, possess helical motion. If we consider a collection of galaxies, the galaxies themselves also have helical motion. Therefore, in general, it can be said that within and beyond galaxies, any object that is in motion follows a helical path. In effect, this helical motion of objects throughout the universe suggests that the Einstein-Rosen wormhole theory exists both within and outside of galaxies, and the helical motion of objects is the very foundation for the creation of Einstein-Rosen wormholes.



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