

Research Paper

Submitted by Syed Waleed Mehboob Ali

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THE FLUIDIC GENESIS OF GALACTIC MOTION

Interpreting Sagittarius A Through the Punctured Bag Analogy

Author

Syed Waleed Mehboob Ali

A businessman, independent researcher, and spiritual energy explorer. With a professional background in the marble and construction industry, he integrates practical leadership with deep insights into brain-based healing and cosmic consciousness. His unique method bridges metaphysical traditions with emerging theoretical science. Through his work "Divine Energy in the Age of WiFi," he invites others to explore the deeper frequencies guiding human potential and universal motion.

Abstract

This paper introduces a symbolic yet philosophically potent analogy for interpreting galactic structure and motion. By comparing Sagittarius A*, the supermassive black hole at the center of the Milky Way, to a gravitational aperture formed through a high-pressure puncture akin to a toothpick piercing the base of a water-filled bag, the model provides a unique perspective on cosmic formation and expansion. This visual metaphor resonates with the idea of an initial 'bang' (or primal disturbance), establishing a coherent flow of matter and energy outward from the center. It bridges cosmological phenomena with accessible physical intuition, offering a new interpretive layer to the gravitational dynamics of galaxies.

Introduction

Modern cosmology describes a universe in continuous expansion, emerging from an initial singularity commonly referred to as the Big Bang. While this narrative is built on robust mathematics and astronomical observations, its abstract nature often lacks intuitive grounding. This paper proposes a novel symbolic model to conceptually understand both galactic structure and motion. The analogy is drawn from a simple physical system: a plastic bag filled with water, pierced at its base with a toothpick. The moment of puncture represents the cosmic "bang" an initiation event. The water exiting the hole symbolizes the outward movement of stars, systems, and matter from a central point. In this analogy, Sagittarius A* functions as both the puncture and the sustained core of flow, representing a gravitational conduit born from the primordial rupture.



The Punctured Bag Model

Fluidic Visualization of Galactic Expansion

Pre-Puncture State as Latent Cosmic Potential

Prior to puncture, the water-filled plastic bag represents a compressed, high-potential state a sealed reservoir of latent energy and matter. This can be seen as symbolic of pre-Bang conditions: a unified field, or a cosmic medium held in tension, perhaps by divine ordinance or quantum equilibrium.

Toothpick Puncture as the Bang Event

The act of puncturing the bag with a toothpick reflects a moment of sudden, directed release a singular event of creation or rupture. This rupture introduces a vector for movement and structure. The analogy aligns with both scientific notions of the Big Bang and metaphysical interpretations of divine initiation. In either framework, the puncture signifies not just destruction, but ordered birth.

Outward Water Flow as Galactic Motion

The subsequent flow of water droplets from the hole mimics the spiral and outward trajectory of stars and stellar systems from Sagittarius A*. Each droplet follows a structured path, not chaotic dispersal, echoing the ordered rotational dynamics observed in spiral galaxies. Matter behaves like fluid guided by pressure gradients and gravitational channels, both in the analogy and in observed cosmic behavior.

Sagittarius A as The Gravitational Hole of Motion

Existing Observations

Located approximately 26,000 light years from Earth, Sagittarius A* is a well-documented supermassive black hole with a mass equivalent to four million suns. Stars in its proximity exhibit rapid orbital motion, confirming its gravitational influence.

Interpreting Sagittarius A* Symbolically

Rather than perceiving this black hole as merely a sink of matter, this paper reinterprets it as the puncture site of creation, the very place from which the Milky Way's structure finds its anchor and trajectory. Just as water flows from the bag due to internal pressure, cosmic matter and energy could be understood as flowing outward due to the residual momentum from that initial rupture.

Galactic Disc as Residue of a Structured Discharge

The spiral arms of the Milky Way, and their coherent patterning, correspond to the structured pathways of fluid dispersal in the punctured bag analogy. This suggests that the form of the galaxy is not random but emergent from an originating puncture and sustained inward pull.

Philosophical and Scientific Implications

Bridging Metaphor and Mechanics

This analogy does not attempt to replace physical theories such as general relativity or black hole thermodynamics. Instead, it proposes a cognitive bridge, a philosophical lens through which to view abstract phenomena using accessible analogues. It emphasizes that motion is not just gravitational but also inherently meaningful, connected to origin.

Implication for Other Galaxies

If Sagittarius A* represents a puncture-origin center for the Milky Way, then each galaxy's core might serve a similar role. This opens space for reinterpreting cosmic inflation, not as chaotic expansion, but as fluidic emergence through central gravitational apertures formed by primal ruptures.

Alignment with Divine Creation Models

In theological or metaphysical readings, especially within Islamic cosmology the origin of the universe is attributed to a single divine command ("Kun fa-yakoon"). This analogy aligns with such views: a contained system ruptured by divine will, through which order and motion are born.

Conclusion

The punctured bag analogy introduces a symbolic interpretation of Sagittarius A* as more than a passive gravitational center, it is reimagined as a memory point of the universe's primal motion. The analogy of a water droplet escaping a pierced membrane captures both the structure and flow of our galaxy. While the metaphor is not mathematically modeled, its

conceptual power lies in bridging cosmic-scale mechanics with physical intuition and metaphysical reflection. Sagittarius A* becomes not merely an object of study, but a symbol of flow, order, and origin.

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