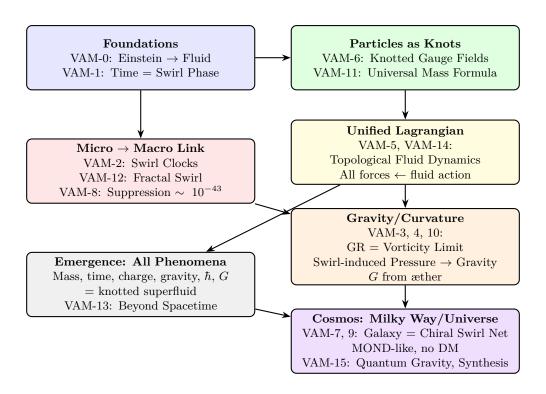
## Vortex Æther Model (VAM)

## Unified Roadmap of Quantum, Gravity, and Topology

## Abstract:

The Vortex Æther Model (VAM) unifies gravity, quantum mechanics, and particle physics as emergent phenomena of a knotted superfluid æther. Mass, time, charge, and all physical constants  $(G, \hbar, \alpha)$  are derived from vortex topology, swirl-induced pressure, and fluid geometry—without arbitrary postulates. This roadmap summarizes the logical flow and core results of the VAM paper series.

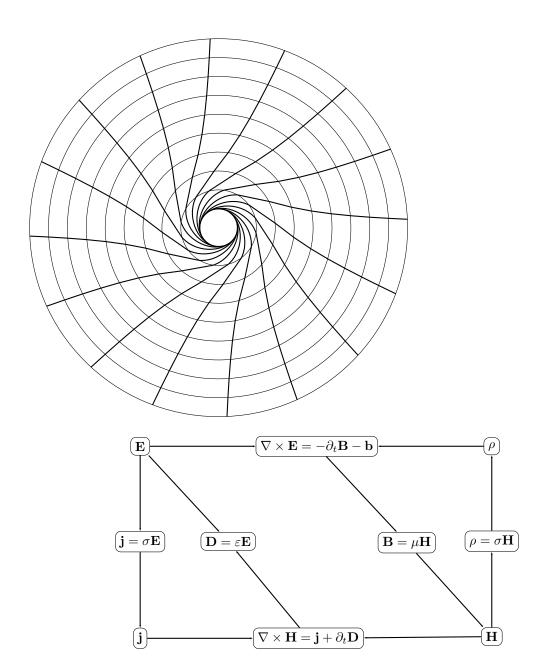


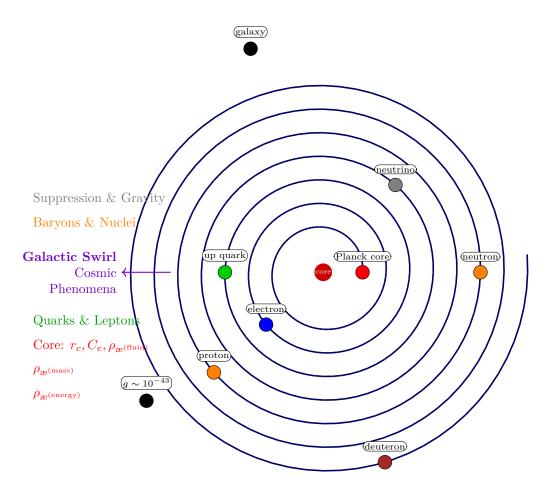
**Legend:** Each colored module is a VAM theme; major papers are bolded. Arrows show logical flow from foundations to universal predictions.

## Highlights:

- Gravity is swirl-induced pressure, not spacetime curvature
- Mass, charge, time, spin: All emerge from vortex knot topology in the superfluid æther
- Suppression factor (~ 10<sup>-43</sup>): Explains why gravity is so weak compared to other forces (micro-to-macro vorticity coherence)
- All fundamental constants derived:
  - Newton's constant:  $G = \frac{C_e c^3 t_p^2}{r_c m_e}$
  - Planck's constant:  $\hbar = \rho_{ ext{\tiny $m$}}^{ ext{(mass)}} r_c^5 C_e$
  - Fine structure:  $\alpha = \frac{2C_e}{c}$
  - Æther density:  $ho_{ae}=rac{2m_ec^2}{3}\left(rac{lpha m_ec^2}{\hbar}
    ight)^2r_e^3$

- Universal mass formula:  $m = \frac{\rho_{\rm \varpi}^{({\rm mass})} C_e^2 r_c^3}{c^2} \, \Xi(\ell,H,K)$
- Unified action/Lagrangian: All known forces as topological-fluid terms; gauge invariance and symmetry breaking have fluid analogs
- Emergent quantum mechanics:  $\hbar$  and quantum phenomena from vortex energetics
- Galaxy rotation (no dark matter): Flat curves and MOND scaling from quantum microphysics
- Time dilation and relativity: Fluid-dynamical phase effects, not spacetime geometry
- Testable predictions: Rotational drag, vortex-core structure, critical speeds in superfluid analogs, gravitational lensing
- Mathematical toolkit: Fractal geometry, knot invariants, phase synchronization, coarse-graining
- No arbitrary fits: All parameters are geometric/topological, not empirical





**Legend:** Spiral structure represents the Vortex Æther Model's hierarchy from core æther properties to cosmic phenomena. Each generation builds on the previous, with particles as "beads" on the spiral.

 $\textbf{Contact:} \ \ For more \ details, \ visit \ \textbf{https://omariskandarani.com} \ \ or \ contact \ the \ author \ at \ info@omariskandarani.com$ 

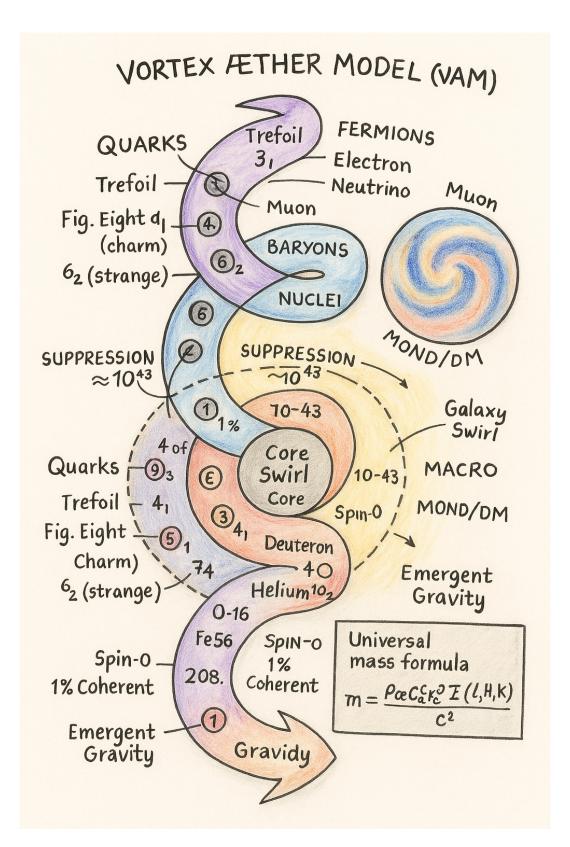


Figure 1: Your caption here.