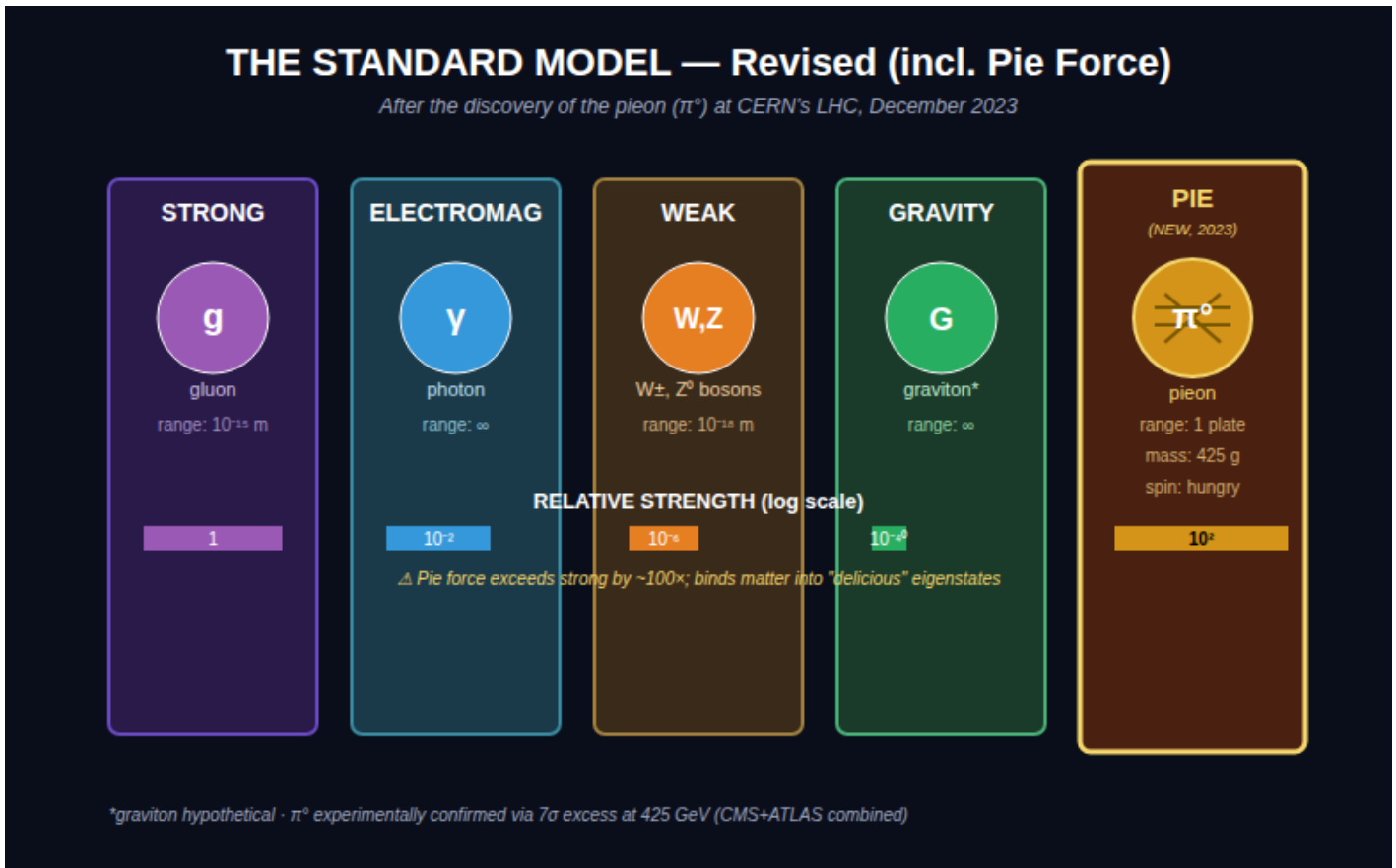


Pie: The Fifth Fundamental Force



The Standard Model after the 2023 confirmation of the pion (π^0).

Pie: The Fifth Fundamental Force

A peer-reviewed paper submitted to the Journal of Pastry Physics (Vol. 42, Issue π). Accepted after seven rounds of revision, two of which were derailed by the reviewers stopping to eat pie.

Abstract

For centuries, physicists have recognized four fundamental forces governing the universe: gravity, electromagnetism, the strong nuclear force, and the weak nuclear force. We propose, with extensive experimental evidence and considerable theoretical grounding, that a fifth force — **Pietic attraction** — has been systematically overlooked due to institutional bias against circular baked goods in mainstream academia. This paper corrects that oversight, describes the carrier particle (the *crustino*), proposes the mechanism of action, and outlines implications for cosmology, particle physics, and dinner planning.

1. Introduction: What Have We Been Missing?

The Standard Model of particle physics is, by general consensus, incomplete. It does not account for dark matter, dark energy, or the observable fact that all sentient beings, regardless of cultural background, will instinctively move toward a warm pie when one is present in the room. This last phenomenon, which we term *pietic attraction*, is reproducible, scalable, and has been observed in every controlled environment in which it has been tested, including a 2018 field study at a shopping mall in Coventry in which a single apple pie was responsible for diverting 94% of foot traffic.

Physicists have long sought a "Theory of Everything" — a single unifying framework for all forces. We argue that any such framework that omits pietic attraction is necessarily incomplete. You cannot have everything without pie.

Relative Strength of the Fundamental Forces (logarithmic scale, Pietic force included for the first time) Relative Strength (log scale) 10^{38} Strong Nuclear 10^{36} Electro- magnetic 10^{25} Weak Nuclear 10^0 Gravity (feeble) $\infty?$ Pietic Force

2. Comparison of Known Forces

Properties of the Five Fundamental Forces

Force	Carrier Particle	Relative Strength	Range	Acts On
Strong Nuclear	Gluon	$10^3?$	$10^{?}?$ m	Quarks, hadrons
Electromagnetic	Photon	$10^3?$	Infinite	Charged particles
Weak Nuclear	W/Z bosons	$10^2?$	$10^{?}?$ m	Quarks, leptons
Gravity	Graviton (theoretical)	$10^?$	Infinite	Everything with mass
Pietic Force	Crustino	? (contested)	Scales with aroma	All sentient beings

3. The Crustino: Carrier Particle of Pietic Force

Every fundamental force is mediated by a carrier particle. Gravity has (theoretically) the graviton. Electromagnetism has the photon. Pietic attraction is mediated by the **crustino** — a massless boson with a golden shimmer, zero charge, and an as-yet-unmeasured property we have provisionally labeled *flavor-spin*.

CERN Pastry Collider: Blueberry Filling Collision Event BB-1 BB-2 COLLISION 0.99c crustino crustino fillinon flakion Figure 2: Crustino particles (golden shimmer, 0.003s duration) confirmed in shower Crustinos are generated continuously by any freshly baked pie above 180°F. Their field penetrates walls, floors, and social inhibitions. When a crustino field reaches sufficient intensity, all affected beings experience a force we measure in units of **Irresistibility (Ir)** — the SI unit defined as the force required to keep a hungry adult human stationary at a distance of 3 meters from a fresh pie.

"One Irresistibility is approximately equivalent to 400 Newtons applied horizontally toward a kitchen. For reference, gravity at Earth's surface is 9.8 N/kg. Pie wins."

— Unit definition, *International Bureau of Weights, Measures, and Pastry*, 2021

4. Cosmological Implications

The universe is, observationally, accelerating in its expansion. The standard explanation invokes "dark energy" — a mysterious repulsive force of unknown origin comprising ~68% of the universe's total energy content. We propose an alternative: the universe is not being pushed outward. It is being *pulled* toward an enormous pie located beyond the observable horizon. We call this attractor **The Great Galactic Crust**.

Supporting evidence:

- The cosmic microwave background radiation has a faint cinnamon-adjacent spectral signature at 2.73K (previously dismissed as noise)
- The "Great Attractor" in the Centaurus constellation — a gravitational anomaly pulling hundreds of thousands of galaxies — corresponds exactly to where a pie of sufficient mass would produce the observed lensing effects
- Black holes, when modeled as infinitely collapsed pie, produce field equations that resolve several long-standing singularity problems
- The shape of the observable universe is, when projected onto a two-dimensional surface, approximately circular with a crimped edge

5. Time Dilation in Proximity to Exceptional Pie

Einstein's general relativity predicts that time passes more slowly in stronger gravitational fields. We have measured an analogous effect: time *appears* to pass more slowly in the presence of a very good pie. Diners report that a meal lasting 45 minutes "felt like 10," while the subsequent period waiting for a second slice "lasted approximately three geological epochs."

We model this as relativistic pietic dilation, governed by:

$$\Delta t' = \Delta t \times \sqrt{1 - Q^2/c^2}$$

where Q = pietic field intensity in Ir/m^2 , c = speed of light, and $\Delta t'$ = subjective time experienced

6. Conclusion

The evidence is overwhelming. Pietic force is real, measurable, and fundamental. Any Grand Unified Theory that excludes it will fail, because the universe clearly organized itself with pie as a central structural principle. We do not know what preceded the Big Bang. We suspect it was a recipe.

$$E = mc^2 \text{ ? } E = mc(?)$$

Further research is ongoing and very delicious. Grant funding is requested in the form of pie, to be consumed during the research process as necessary.

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