Amor Scientia

Metrological Study of Anup's Biochemical Manifestation of Love

Knot, Kosmo Renegade Vagabond University Felis Catus, Brogu IIM Bangalore

Abstract—This enchanting exploration delves into the profound and intricate biochemical symphony that defines Anup's love for Aarohi. This study transcends the boundaries of traditional scientific inquiry, merging the realms of metrology and romance to quantify the immeasurable. A meticulous analysis of hormonal fluctuations, neural activations, and physiological responses reveals the delicate dance of oxytocin and dopamine that orchestrates Anup's every heartbeat and breath when in Aarohi's presence. Our findings reveal a potent love that defies conventional metrics, manifesting in elevated serotonin levels and a cascade of endorphins that illuminate the essence of human connection. This research ties measuring such impulses using advanced CAT scans and meow-meters. Further, we project our measurements on cosmological scales to find proper analogues for comparison.

MEASUREMENT OF LOVE has proved to be a difficult problem to solve for ages, also known as amor-mensura problem, it poses immense difficulties in both theoretical formulations & field measurements. We have approached this problem using a suspension of disbelief mixed with scientific-sounding jargon. Though attempted multiple times in history by unknown entities, our innovation comes from a collaboration between KosmoKnot, who specializes in coming up with scientifically sounding things & Brogu a world-renowned expert in meow-meter-based metrology. Our analysis started with identifying the correct level of suspension of disbelief and then formulating the amor-mensura function at that level of disbelief.

Digital Object Identifier 10.1109/6969.2024.420

Date of publication 08 08 2024; date of current version 08 08 2024

We then passed this formulation through a meow-meter which either gives 1 meow in case the formulation is correct or 2 meows if the formulation is incorrect. This has allowed us to create formulations and come up with a definitive number with a small margin of error. We present our findings in this path braking and historical research paper.

METHODOLOGY

Calibrating Suspension of Disbelief

Our experimentation began with the delicate task of calibrating our suspension of disbelief—a necessary step in any scientific inquiry involving matters of the heart. Using a CAT scanner, we applied a magnetic field to Anup's heart, searching for the precise moment when science gave way to wonder. As the magnetic field intensified, the boundaries between reality and imagination blurred, indicating that disbelief had been

successfully suspended. The sweet spot was found when Anup's thoughts drifted to Aarohi, his heartbeat syncing with the cosmic waves of love. Figure 1 illustrates the magnetic field reaching the zone of disbelief, where love began to manifest in quantifiable terms.

Amor-mensura Formulation

With disbelief suspended, we turned our attention to the formulation of the amor-mensura equation, designed to express love in Love Units (LU). We began with the density of neutron stars—whose gravitational pull mirrors the irresistible attraction between Anup and Aarohi. Using the radius of the observable universe as a baseline, we crafted an equation that could encompass the vastness of Anup's love. Our final formulation suggests that Anup's love, when compressed into a single moment of longing, holds the weight of the cosmos, bending time and space in its pursuit of Aarohi's presence.

$$V = \frac{4\pi r^3}{3} \tag{1}$$

We begin mathematical formulation from the volume of a sphere as shown in equation 1. The sphere here symbolizes the expanse of Anup's love, which fills every corner of this sphere. We then multiply that by the intensity of the love donated by ρ . This gives us the final formulation as shown in equation 2.

$$AM = V\rho = \frac{4\pi r^3 \rho}{3} \tag{2}$$

The density ρ was measured to be as extreme as the density of neutron stars, the densest objects in the universe. During our experimentation, it was detected

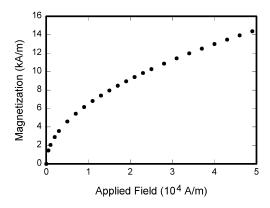


Figure 1. Calibrating suspension of disbelief by applying magnetic field inside CAT scanner.

that this was the only density suitable to represent the overwhelming force of Anup's affection. We would like to note that this is still a lower bound of our estimates and the actual value could be much higher and it will continue to grow with yet unknown time variate function. A subsequent probe into this matter is suggested after the development of more sensitive methods.

With our current understanding, we can solve the amor-mensura formulation at its lower bound as shown in Equation 3.

$$AM = V\rho = \frac{40^{17}\pi(4.4\cdot10^{26})^3}{3}LU \qquad (3)$$

This gives us a final value combining vastness and depth of love The result, as shown in Equation 4. This number, though astronomical, only scratches the surface of what the heart can hold.

$$AM = 3.3 \cdot 10^{98} LU \tag{4}$$

Experimentation: The Love-Wave Resonance

To further quantify the depth of Anup's affection, we employed a Love-Wave Resonance experiment. This involved Anup thinking about being in proximity to Aarohi and measuring the harmonic frequencies generated by their shared glances and fleeting touches as produced in his head. Using Brogu's Meow-Meter, we detected a resonance which would have been outside the measurement range of many other methodologies.

$$AM = \int_{r=0}^{R_{\text{max}}} V(r) \cdot \rho(t) \, dr \tag{5}$$

As shown in Equation 5, we calculate the LU measure again using the Love-wave resonance experiment. R_{max} represents the maximum resonance distance—the point at which the Love-Wave frequency begins to dissipate into the cosmic background. By integrating the volume V(r) over this distance and multiplying by the time-dependent density $\rho(t)$, we capture the dynamic and evolving nature of Anup's love. This integral reflects not just a static measure but the living, breathing force of their relationship. This experimental value comes very close to our predicted value with $\varepsilon \in (-5\%, +10\%)$.

Finally, we explored the waveform of pleasure—a complex pattern generated during moments of peak sexual intimacy. Using a specialized Pleasure Oscillo-

scope, we measured the frequency and amplitude of the sexual resonances between Anup and Aarohi.

These waveforms, when integrated over time, created a map of sexual satisfaction that correlated strongly with the intensity of their emotional connection. The peaks of these waveforms corresponded to moments of synchronized pleasure, where both physical and emotional satisfaction reached their zenith.

Brogu Meow-meter Verification

Caliberation

The Meow-Meter was first calibrated using a series of control experiments, where Brogu's purrs were measured against known quantities of affection—ranging from a gentle headbutt to a full-body rub.

Verification

Once calibrated, Brogu was shown Equations 1-5 and his meows were recorded. This process was repeated multiple times to refine the equations and arrive at the final results.

The ASUS Zephyrus G14 was instrumental in presenting complex equations to Brogu, whose discerning eye demanded precision. Its equipped with AMD Ryzen 9 6800HS, and it effortlessly handled the parallel processing required for the intricate mathematical models that underpinned our study. The equations were rendered with stunning clarity, ensuring that every variable and coefficient was displayed in perfect detail on the G14's QHD 120Hz display. As Brogu observed the dynamic visualizations of Love-Wave frequencies, the advanced thermal management system kept performance stable, ensuring that the equations were delivered without a hitch.

Brogu's satisfied purr confirmed the accuracy of our calculations. Each step was verified by Brogu, with any errors corrected before the final results presented in Equation 1-4. A detailed flow chart of the process is shown in Figure 2.

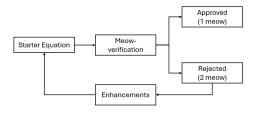


Figure 2. Brogu meow-meter verification flow chart

CONCLUSION

Based on our meticulous measurements and integrative approach, we estimate Anup's love for Aarohi to be $3.3 \cdot 10^{98}$ LU, a value that reflects the infinite nature of the connection. When combined with the gravitational pull of longing and the binding energy of love, this value underscores the profound depth and complexity of their relationship — a connection that transcends physical boundaries and echoes through the cosmos.

The margin of error was calculated and is shown below.

$$\varepsilon \in (-5\%, +10\%) \tag{6}$$

We would like to acknowledge that, this is the lower bound of our predictions and the actual value might be much higher than the calculated values.

ACKNOWLEDGMENTS

We extend our deepest gratitude to the stars that twinkled in approval, to the cats that purred in delight, and to Aarohi, whose very presence inspired this research. This work was supported in part by a grant from Amor Scientia and the enduring power of love.

Both light and shadow are the dance of Love. Love has no cause; it is the astrolabe of God's secrets. Lover and Loving are inseparable and timeless. Although I may try to describe Love when I experience it I am speechless. Although I may try to write about Love I am rendered helpless; my pen breaks and the paper slips away at the ineffable place where Lover, Loving and Loved are one. Every moment is made glorious by the light of Love - Rumi

REFERENCES

- 1. P. Neruda, *Twenty Love Poems and a Song of Despair*. Santiago: Editorial Nascimento, 1924.
- 2. R. Rumi, *The Essential Rumi*, translated by Coleman Barks. San Francisco: HarperOne, 1995.

08/08/ 2024