Four cosmologies synthesis and genetic entropy

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31 mars 2025

Abstract. *The aperture of the Sanchez 1998 sealed fold was postponed untill the "impossible galaxies" observation, predicted 27 years ago. The 3-minutes $(\hbar, G, m^3)$ formula replacing c by the product of electron-proton-neutron masses gives half of 13.8 billion light-years, unifying the two main cosmologies and Eddington's statistical one. Integrating Wheeler's single-electron cosmology, the triplet $(\hbar, G, m_e)$ is associated with an ideal human couple with larger characteristics. This replaces Darwinian evolution by Sanford's genetic entropy and Gyertych's devolution. We are numerically central in the cosmos, but in decline. The 2001 sealed fold rehabilitates the tachyonic bosonic string theory and the 2002 one connects the nucleotide atomic masses by C+G = A+T+1, playing a central role in the cosmology unification.*

1 The ancestral problem of Humanity in the Cosmos

Man has always wondered about his place in the cosmos. Before Copernicus, he was thought to be central in a *geometrical sense*. Official modern science now considers a "temporal anthropic principle" : we would live in a *particular epoch*. But the opening of the French Academy 1998 sealed fold shows the synthesis between official cosmology, steady-state's one and Eddington's statistical's one [2]. This letter presents the synthesis of this "Permanent Bang Cosmology" with the Wheeler's single electron cosmology. Feynman's analysis of the latter [3] suggests that *this Permanent Bang is a matter-antimatter oscillation, solving the problem of the apparent absence of antimatter. Dark matter would be a quadrature oscillation.*

2 The inclusion of Wheeler's one-electron cosmology

In 1910, three years before Bohr, Arthur Haas determined the radius of the hydrogen atom by equalizing the three forms of energy : double kinetic, potential, and quantum. The latter is h/t, where $t = 2\pi r/v$ is the period of the electron of velocity v on a circle of radius r :

$$mv^2 = \hbar c/ar = \hbar v/r \quad \Rightarrow \quad v_H = c/a \;\; ; \;\; r_H = a\hbar/m_e c \tag{1}$$

Eliminating $c = Gm_P^2/\hbar$, where $m_P \approx 21.8$ micrograms is the Planck mass, and the electrical constant $a \approx 137.036$ leads to the *simpler* formula :

$$r_H = a\frac{(\hbar/m_P)^2}{Gm_e} = \frac{(\hbar/m'_P)^2}{Gm_e} \quad ; \quad m'_P = \frac{m_P}{\sqrt{a}} \tag{2}$$

where $m'_P \approx$ *1.86 micrograms is close to the maximal mass of a human oocyte, with 150 micrometers in diameter.* With the kinetik term $\hbar/m_e$, this defines the mass m_A such that :

$$r_H = \frac{(\hbar/m_e)^2}{Gm_A} \;\; ; \;\; m_A = \frac{{m'_P}^2}{m_e} \;\; \Rightarrow \;\; \frac{(\hbar/m_e)^2}{G} = m_A\, r_H = m'_H\, R/2 \approx \; 200.77 \;\; \text{kg m} \tag{3}$$

where the mass $m'_H = m_p m_n/m_e$ is defined by the same simplification procedure using the 3-minutes formula (sealed fold 1998) for the half-universe radius $R/2 = \hbar^2/Gm_e m_p m_n = (\hbar/m_e)^2/Gm'_H$. This mass m'_H is very close to that of the anhydrous desoxy-monophosphate DNA bicodon with six nucleotides, being defined to within 3 hydrogens as the nucleotides atomic masses check Cy + Gu = Ad + Th + 1 [6] (sealed fold 2002). Identifying the latter product with $m_{man}\ l_{man}$, and tacking account of the optimal body mass index 25 kg/m^2, this defines :

$$l_{man} \approx 2.00 \text{ metre} \quad ; \quad \mathrm{m_{man}} \approx 100 \text{ kg} \approx \mathrm{m'^3_P}/(\mathrm{m_e\ m_{man}}/\sqrt{2}) \quad (0.2\ \%) \tag{4}$$

The Ideal Woman is thus defined from the Ideal Man by : $m'^3_P = m_e m_{man} m_{wom}$, confirmed by the Holic Unificator ϕ^{137} [5], where Φ is the golden number and m_H the hydrogen mass :

$$\frac{m_A}{m_{man}} = \frac{l_{man}}{r_H} = \frac{m_{wom}}{m'_P} \quad \Rightarrow \quad m_{wom} \approx 70,32 \text{ kg} \quad ; \quad \frac{m_{wom}}{m_H} \approx (4\pi/3)(\mathrm{T_e/T_{CMB}})^3 \approx \Phi^{137} \tag{5}$$

to 2 %, where T_{CMB} is the background temperature and $T_e = m_e c^2/k_B$ the electron's one.

3 Discussion and Conclusion

The temperature given by $\sqrt{Rl_P} = hc/k_B T$ is $T \approx 313$ Kelvin ≈ 40 Celcius, the lethal temperature of mammals. With Fermi's constant $G_F \approx 1.436 \times 10^{-62} Joule\ m^3$, the mass $(GG_F)^{1/4}/(G/c) \approx 4.44$ kg is compatible with that of the Ideal Baby. The above large number m_A/m_{man} (about 38 billion) is typical of the overall earth man population and close to the ratio of nuclear couplings (strong/weak), while the female/child mass ratio is close to the strong nuclear/electric constant ratio, around 16 : the rank of Eddington's matrix [1].

The length $\hbar^2/Gm'^3_H$ is very close to the double of the Kotov length ct_K where $t_K \approx 9600.60$ s is the period of the non-Doppler oscillation of several quasars [2] showing *tachyonic physics*, so the rejection of the bosonic string theory was unjustified. Moreover, the Topological Axis (sealed fold 2001) tying R to the dimension 26 shows the Alvarez-Gaumé series of "gravitational anomalies" which begins by the series 2,6,10,14 : the Periodic Table orbital populations. So *the string theory must be simplified, by identifying the spin duality with the 2 string dimension.*

The time $(G_F/\hbar)^2/(GG_F)^{3/4} \approx 19.14$ ms is compatible with the retinal persistence. Indeed, the corresponding frequency 52.25 Hz is close to the cinema's one. More precisely, the third octave of this frequency corresponds to the flat La, for the pitch $La_3 = 442.9$ Hz.

The Physics-Anthropobiology link is thus firmly established. But, since the masses of this ideal human triplet (Man-Woman-Baby) are larger than today's masses, Gyertych's Devolution [4], following the genomic entropy law [7], replaces Darwinian Evolution. The anthropo-archaeology must be completely revisited. *We are numerically central in the cosmos, but in decline.*

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