

## Erratum: Comment on our sciencephilosophy.pdf files 1- 4, 2006 - 2008

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Dear reader,

Due to an error in the 2006 CODATA adjustment of fine-structure constant's value, this then used for adjustment/correction of our approximations to  $\alpha(0)$ , erroneous and/or superfluous adaptations of our previous results were made for the sake of accuracy. What remains from the statements in the paper referred to is that maybe the original  $\alpha(0)$  approximation's shape, this been

$$\alpha(0) \approx \frac{1}{2\pi\delta^2} \left[ \exp\left( - \frac{1}{\gamma(e^{\pi+1}\pi^{e+1} - \pi P/2)} \right) \right], \quad \text{Eq.(1)}$$

is incomplete. There indeed is some concern over the exp-function-argument's denominator, the terms likely tied to spontaneous symmetry breaking /vacuum polarization and to (a maybe phenomenological formulation of) relative charge  $\leftrightarrow$  relative mass interplay (this outlined by external angles  $\xi^\infty(c)\xi^\infty(c_k)$ ) present, but such tied to the close-range field ( $-\xi^0(-2)\xi^0(c_D)$ ) within  $[\gamma(e^{\pi+1}\pi^{e+1} - \pi P/2) \pm Z_{\text{zero}}^2]$  shape) absent. The  $Z_{\text{zero}}^2$  term possibly missing is expected to be  $\ll \gamma\pi P/2$  and to reflect nature's digital properties like e.g. quantized information (maybe by  $\ln(2)^2$  times a small number squared product's appearance, a further 1/8 factor coming from  $\xi^0(-2)\xi^0(c_D)$ ). The maybe missing small correction-term's sign remains open. The whole task is a likely lengthy one if consideration of finite-k convergents to  $\delta$  and P were necessary.

As far as the Maxwell's-distribution-like function  $Z_{\text{int}}(\xi)^2$  within our generalized  $\alpha(0)$  approximation (see Eq.(3) of the 2008 comment) is concerned, its former form (as given in Eq.(8) of the file sciencephilosophy4.pdf) is valid until the maybe missing correction term treated before is found, or can be done without such. In any case,  $Z_{\text{int}}^2(1) \approx 0$  reminds of the relativistic  $v/c \rightarrow 1$  limit. Thus one has the distinct feeling that special relativity originates from phase functionals' periodicity, the external angles  $\xi(c)$ ,  $0 \leq \xi < 1$ , being  $g(f(\varphi))$ . Such idea – of course without reference to fractal geometry then – was conjecture by H. Dorfer (private communication in the early 1970s), quite probably by others too. And the  $M_p/2m_e$  mass ratio approximation (of file sciencephilosophy.pdf), rewritten in terms of approximated  $\alpha(0)$  remains valid.

Concluding, we apologize for having presented false/misleading deductions from invalid input data along logical implication's "ex falso quod libet" path.