

FOUNDATIONS OF GAUGE THEOLOGY

1 Introduction

Classical theology has always considered God as an all-powerful, ubiquitous entity whose knowledge and goodness are infinite[1]. In the framework of Roman Catholic Religion (RCR), this entity manifested itself incarnating into the figure of Jesus Christ (JC) who is commonly held to be the ultimate proof of God's existence [2] and infinite benevolence ¹.

Although widely believed to be true, the shortcomings of the classical RCR model are quite evident: sins, death, wars, destructions and natural disasters spoil the naive picture of an all-knowing, all-powerful and benign being who designed the Universe by his supreme knowledge. In this paper, we propose a different scheme of interpretation of God's properties: quantizing the classical RCR, we will show that many of God's shortcomings can be naturally explained in the context of a Quantum Field Theory. Moreover, we will see that God's Yang-Mills Lagrangian has the striking feature of being the same $SU(3) \otimes SU(2) \otimes U(1)$ of the Standard Model of Particle Physics. This and further analogies will help us shedding some light on the ultimate mystery of Theoretical Physics, i.e. God's Existence.

2 Quantizing Classical Theology

The process of Canonical Quantization of the classical RCR lagrangian involves necessarily the introduction of a cutoff. As is well known, e.g., from QED, the calculation of higher-order contributions to the S-matrix elements necessarily brings about ultraviolet divergences, indicating that our theory cannot be valid on all energy scales. In the context of Gauge Theology (GT) this has a straightforward explanation. God isn't an all-powerful, all-knowing entity - rather, he is an *effective* entity. His knowledge and power do not reach all scales, but are naturally bounded by a cutoff related to the range of validity of the GT, which could be - by analogy with the SM - related to the EW, GUT or the SUSY scale. Sins and death arise beyond the tree level, on high energy scales where quantum effects dominate over classical RCR contribution [3].

¹In this classical picture, the incarnation into JC can be seen as the analytical continuation of God's function from the imaginary axis into the real plane.

3 Gauge Theology and SSB

The mechanism of Spontaneous Symmetry Breaking plays an extremely important role in GT: we find that the first SSB - which takes place at the equivalent of the GUT scale - is associated with Lucifer's descent into Hell. The symmetry between good and evil is badly broken, affecting the vertical translational invariance of the theory. Lucifer can be seen as the Goldstone boson associated to this SSB [4].

But the GUT scale is also the energy scale where all religions unify into one single group: this is the *Scale of Great Syncretism*. Classical monotheistic religions are in this framework simply different low-energy representations - i.e. effective theories - which differ one from the other because of the different choices of the relevant parameters in God's Lagrangian ².

The second SSB takes place at the EW scale, when God - descending on Earth - gets a non zero v.e.v. and breaks the $SU(2)$ gauge group ³ incarnating into JC.

After this second SSB, we are left with the so-called *Trinity* lagrangian, $SU(3)_c \otimes U(1)_e$, which reproduces the low-energy approximation of the effective RCR, where God is held to be One and Three at the same time.

4 Analogies with the Standard Model

The $SU(3) \otimes SU(2) \otimes U(1)$ GT lagrangian has $8+3+1 = 12$ generators, which can be easily identified with the 12 apostles. Moreover, the four generators in the EW sector can be identified with the four evangelists: in GT, the bosons are the mediators of the interactions between God and men. In this picture, quarks represent the soul of men; their subdivision into three families finds a natural explanation in the light of classical RCR: the only stable doublet of quarks represents the standard, etherosexual family ⁴ - whereas the two kinds of homosexual (man-man and woman-woman interactions) families are doomed to decay: God punishes evil men giving them a high mass, i.e. a short lifetime. In this we recover the classical RCR theory, which claims that only etherosexual marriage can provide stable foundations for a society [5].

²Many classical authors have pointed out that the very existence of different religions - bringing about wars and hatred among followers of different faiths - is a byproduct of Lucifer's descent into hell. This claim finds a natural explanation in the context of GT.

³In classical Judaism the $SU(2)$ group is unbroken

⁴Obviously, the man is the quark Up and the woman the quark Down

5 Conclusions

In this paper, we have shown how Classical Quantization of RCR can explain in a consistent framework the whole creation. God, in contrast to RCR, is here an *effective* entity, with powers and knowledge limited to the scale up to which GT is valid. Further developements and applications of the theory may involve calculations of the average sinner's lifetime or might be directed to shed some light on the mysteries of the SSB at the Scale of Great Synchretism.

Riferimenti bibliografici

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