From the 3D Constructions of Gell-Mann's 1960 to the Higgs Field Constructions with Data of all Elementary Particles

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ABSTRACT

In 1960 Gell-Mann completed the "Particle Zoo" with pseudo 3D constructions: a Spin-Strangeness plane and an oblique incident charge. In this way he investigated with the crossing Kaon connections (1/2 Spin, -1, 0, 1 Strangeness, -1, 0, 1 Charge) 3 quark-points with simple proper fractions. With the new media the construction can be better detected with a perpendicular charge axis as could be done with the GeoGebra 5 program. But 1960 the Quantum Mechanics didn't want the Strangeness and prevented a construction for everyman. Only experts were mathematically according to Lagrange allowed to get an idea about the real matter. But according to the Euclid Geometry 3 points lay on a circle line; if twice, then with 6 exact Quark points all other known requirements of the particle physics can be done by construction.

Keywords: Electron, Elementary particles, Gluons, Higgs field, neutrinos, Quarks.

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I. ARGUMENTATION FOR A GEOMETRICAL CONSTRUCTION OF THE STANDARD MODEL WITH ALL ELEMENTARY PARTICLES

It is known that the "Standard Model" (without Graviton) has 61 Particles, but all are independent as Gell-Mann did not continue his "Eightfold Way"-constructions with 3 quarks because of the "better Lagrange mathematics". But now there are 6 known quarks with the Higgs particle and new media such as the GeoGebra program and there is still no System for the Standard model. But as 1960 in the literature of "Chemie für Labor und Betrieb" (before it was overtaken by the Quantum Mechanics) I became very interested in the new particles, so I could then construct a three-dimensional model, which I studied alone after my retirement with the GeoGebra program. The Pauli principle of $-\frac{1}{2}$ and $+\frac{1}{2}$ Spin inversion (entangled quantum) could be enclosed with a circle line with a center point. The relationship (discovered by Gell-Mann) of the Quarks from Kaons with Strangeness -1 and +1 resulted in 3 definite cross points at Halfspin charge: Up- and Down Quarks, Neutrinos, Electrons) lie on circle lines (as required by Pauli). That means that the center point for the Quark circles must be found, which could be done by moving the Spin by - and $+\frac{1}{12}$ ($=0.0833333$). Connecting the 3 opposing 2 Pauli points through the center point gives first the 3 entangled Counter quarks and, in the center, again 3 (Quantum Chromo Dynamic)-Quarks, meaning each of the 2 Quark planes has 9 quarks. Now according to Dirac everything must be synchronized through the Higgs center point, resulting with 18 quarks and 18 Antiquarks as shown

by 4 plane circle lines.

Gell-Mann's construction was also applied for the Neutrino plane: Crossing the $\frac{1}{2}$ Spin Neutrino circle by the 2 (R & L) Zero-Kaons gives the lefthanded Electron- and the righthanded Anti-Neutrino with high precision. The left - My with $-\frac{1}{2}$ Spin and the right + Tau with $+\frac{1}{2}$ Spin are valid for the Neutrino-, Electron- & Positron plane. Each circle line has therefore 4 controlled particles with the circle center (the My - Tau twins with the particle & entangled counter particle).

The Positron lies on half the way from the Baryon +2 with Spin $\frac{3}{2}$ to the neutral Electro center with Spin 0 but -1 Strangeness; therefore, the Data for the Positron are ($\frac{3}{4}$, $-\frac{1}{2}$, +1) and for the Electron ($-\frac{3}{4}$, $\frac{1}{2}$, -1e), always (Spin, Strangeness, Charge).

6 Gluons with color & counter color of the Quarks have to lie at the ends of the 3 Quark diagonals and 2 Gluons with even more colors lie on the Spin axis; on the + side for the upper and on the - side for the lower quarks, but all 8 lie on the Bosonic zero charged circle Spin 1, outside of the Neutrino $\frac{1}{2}$ Spin circle. The Projections of the 6 Quarks to the Bosonic circle plane are the Gravity points of the 6 triangles, so that there is no place for a fourth generation of matter. Also, the Neutron (with down quarks) has Gluon 7 but the Proton (with upper quarks) has Gluon 8.

Future: As the Vector Spin of the symmetric Graviton is known as 2, then should for a three-dimensional, symmetric construction also the Vector be 2 for the Strangeness and the Charge, so that the resulting sphere tensor embraces each of the now 64 Elementary Particles.

Nonmathematical people can see therefore the Standard

Model of the real matter direct as picture with all 61 or 64 Data [1].

Gell-Mann's pseudo space constructions need Spin & Strangeness ($s=1, 0, -1$) with oblique shown charge q as (Spin, Strangeness, Charge). Simple proper fraction points he got by crossing Kaon lines (Spin $\frac{1}{2}$ with Strangeness $-1, 0, 1$ and Charge $-1, 0, 1$), "Quarks", prob. Gravity points.

Fig. 1. Pseudo 3D Construction of Gell-Mann for starting [2].

Fig. 2. Enhanced 3D horizontal construction with all 18 Quarks, (the 6 Quarks, 6 Pauli counter quarks and the 6 QCD center Quarks) with the 8 Gluons on 4 Diagonals, Positron with Electron.

Fig. 3. Bosonic Spin1; Strangeness (1, 0, -1).

Fig. 4. Strangeness 0 until -3 Spin -3/2 bis +3/2, Charge Q +2 bis -1 = pseudo stereo on Strangeness -1 on Gell-Mann's Decuplet construction, 1 = Positron; 0 = Higgs boson; -1 = Electron (charge e, oblique shown).

II. CONSTRUCTION PRINCIPLES

As the directions of W^+ & W^- of the Standard Model (SM) are not known, the charge W ($=W^+$ & W^-) can be applied. As space coordination middle point Zero: the **Higgs boson** is involved. The neutral Spin-strangeness plane has charge $W=0$. Also, Gell-Mann used these constructions in «**Eightfold Way**» but with oblique incoming charge $+2$ from right side. From this Baryon charge $+2$ (Spin $3/2$) to the electric center point $(0, \text{strangeness } -1, 0)$ lies the **positron** in the middle $(3/4, -1/2, +1)$.

As 3. Coordination-parameter I put the charge W perpendicularly down-up. According to the CERN-brick box always 3 Leptons have the same charge. But **3 points in a plane form a circle line**. 2 points have Spin $\frac{1}{2}$ and $-\frac{1}{2}$; The strangeness is $\frac{1}{3}$ and $-\frac{1}{3}$. 1 point with Spin 0 has strangeness $\frac{2}{3}$ or $-\frac{2}{3}$. Then Up = (1/2, 1/3, 2/3), Down = (-1/2, -1/3, -1/3), Charm = (1/2, -1/3, 2/3), Strange = (-1/2, 1/3, -1/3), Top = (0, +2/3, +2/3), Bottom = (0, -2/3, -1/3) . According to Pauli the Spin-inverted particles lie constructively on the other side of the diameter through the center point.

Then only 6 quarks would lie on one plane; but the 3 missing particles lie in the (white) center where the 3 genetic Diagonals (of the 3 Color can be given Quantum Chromo Dynamic (QCD) as third quark in the baryons. So, there are in each of the two planes 9 Quarks definitely.

The 6 complementary “colored” Gluons on both sides lie (charge = 0) on the 1 BosonSpin circle at the ends of the 3 diagonals; the 2 multiple “colored” but no charged Gluons lie at the + & - free ends of the Spin1 for the upper and lower quarks.

This is exactly the geometrical reason that **the real matter does not have more than 3 generation steps.**

Stereo pictures can only be seen in videos or with a corresponding stereo program (GeoGebra); otherwise only momentarily pictures are possible. According to Dirac also again but center symmetrical particles are necessary.

Therefore, there exist also at $W=1/3$ & $W=-2/3$ two full planes more with complementary “colors” magenta, cyan-blue & yellow.

The (left turning) Electron has according to Pauli the (right turning) Counter electron as well the (right turning) Positron (or Anti Electron) with the (left turning) Counter positron.

The Electron plane has 4 particles: Electron, Counter electron, the pair of twins Muon (Anti Proton) & Tau electron. The Positron plane has 4 particles: Positron, Counter positron, the pair of twins Anti Muon (Proton) & Anti Tau. The Neutrino plane has 4 particles: Electron Neutrino, Anti Neutrino, the pair of twins Mu Neutrino, Tau Neutrino. The electromagnetic Boson, the Photon, as well the weak force particle lies together with the 8 Gluons on the 1 Spin Bosonic circle. The + charged W+1 and the - charged W-1 Particles lie perpendicular to the vertical 1 Spin Bosonic circle.

Finally, there are **61 experimentally proven particles shown in the Higgs field Stereo picture, but no picture exists officially**

If Gell-Mann could show that the 3 Quarks can be found by construction, then can also be shown that the **Higgs field can be found by construction – at least for the nonmathematicians**, meaning the common mob and not only the experts. Important, that the Higgs field doesn't needs nor time nor input and therefore also no Heisenberg's

uncertainty - contrary to the 1960 accepted Quantum Mechanic for further experiments. But in the meantime, there are no new results be found and the new media are built for 3D space pictures, so that each particle physics student can do that.

The next construction shows exactly from step 29 to step 46 which Kaonic connections have to be taken to get the 6 crossing points Quarks on $+2/3$ and $-1/3$ planes. The 3 upper & 3 lower Quarks lie on circle lines, but with aberrations of the centers on the Spin line of $+ & -1/12 = 0.08333$.

Therefore, the entangled counterpoints have a $1/6$ higher or lower Spin, e.g., instead of $1/2$ there are $+ \text{ or } - 2/3$ or instead of 0 there are $+ \text{ or } - 1/6$. The construction can be seen step by step on [4], [5]

III. CONSTRUCTIONS

Fig. 5 Horizontal view of Fig. 2.

Fig. 6. The 6 quarks as projected Gravity points on the Bosonic Spin 1 plane.

Fig. 7 After extension with Dirac there are 7 plains.

Fig. 8. The plain diameters are different with proper fractions dependent from the particles (bosons, electrons, quarks, neutrinos).

IV. RESULTING DATA (DIRECT FROM THE CONSTRUCTION PROTOCOL)

.Data of 61 Elementary particles of the Standard Model as (Spin, Strangeness, Charge) = Higgs Field

1) Basic-Data: Higgs- center particle = (0, 0, 0) Bosons			entangled		
	Photon	(1, 1, 0) links drehend		rechts drehend	
	Z ^e	(1, -1, 0) links drehend		rechts drehend	
	W+	(0, 0, +1) charge			
	W-	(0, 0, -1) charge			
G8	Gluons	red (-1, 0, 0) antired blue antiblue green antigreen	G7	green (+1, 0, 0) antigreen red antired	for down & upper Quarks
G6		red (0, -1, 0) antiblue	G5	blue (0, +1, 0) antigreen	3.Generation matter
G4		green (-0.83205..., 0.5547..., 0) antired	G3	red (0.83205..., -0.5547..., 0) antigreen	2.Generation "
G2		blue (-0.83205..., -0.5547..., 0) antired	G1	green (0.83205..., 0.5547..., 0) antiblue	1.Generation "
QCD					
2) Quarks & Leptons:	Up	(1/2, 1/3, 2/3)	up	(-2/3, -1/3, 2/3)	up3 (-1/12, 0, 2/3)
	Charm	(1/2, -1/3, 2/3)	charm	(-2/3, 1/3, 2/3)	Charm3 (-1/12, 0, 2/3)
	Top	(0, 2/3, 2/3)	top	(-1/6, -2/3, 2/3)	top3 (-1/12, 0, 2/3)
	Down	(-1/2, -1/3, -1/3)	down	(2/3, 1/3, -1/3)	down3 (+1/12, 0, -1/3)
	Strange	(-1/2, 1/3, -1/3)	strange	(2/3, -1/3, -1/3)	strange3 (+1/12, 0, -1/3)
	Bottom	(0, -2/3, -1/3)	bottom	(1/6, 2/3, -1/3)	bottom3 (+1/12, 0, -1/3)
	My-Neutrino	(-1/2, 0, 0)	Tau-Neutrino	(+1/2, 0, 0)	
	Electron-Neutrino	(-0.2236..., 0.4472..., 0)	Anti-Neutrino	(0.2236..., -0.4472..., 0)	
	Positron	(3/4, -1/2, +1)	Counter-Positron	(-3/4, -1/2, +1)	(officially Spin & Strangeness exchanged)
	Electron	(-3/4, 1/2, -1)	Counter-Electron	(3/4, 1/2, -1)	"
3) Anti-Quarks:	Muon	(-1/2, 0, -1)	Tauon	(1/2, 0, -1)	
	Antimuon	(1/2, 0, +1)	Antitauon	(-1/2, 0, +1)	
	Anti-Up	(-1/2, -1/3, -2/3)	Anti-up	(2/3, 1/3, -2/3)	Antiup3 (+1/12, 0, -2/3) Antigreen
	Anti-Charm	(-1/2, 1/3, -2/3)	Anti-charm	(2/3, -1/3, -2/3)	Anticharm3 (+1/12, 0, -2/3) Antiblue
	Anti-Top	(0, -2/3, -2/3)	Anti-top	(1/6, 2/3, -2/3)	Antitop3 (+1/12, 0, -2/3) Antired
	Anti-Down	(1/2, 1/3, 1/3)	Anti-down	(-2/3, -1/3, 1/3)	Antidown3 (-1/12, 0, 1/3) Antired
	Anti-Strange	(1/2, -1/3, 1/3)	Anti-strange	(-2/3, 1/3, 1/3)	Antistrange3 (-1/12, 0, 1/3) Antiblue
	Anti-Bottom	(0, 2/3, 1/3)	Anti-bottom	(-1/6, -2/3, 1/3)	Antibottom3 (-1/12, 0, 1/3) Antigreen
4) Future: Graviton	particle 62	(2, 0, 0)	no Antiparticle !		
	particle 63	(0, 2, 0)			
	particle 64	(0, 0, 2)			

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Fig.9. After consolidation with 19 constants, the mathematicians formulate with Lagrange, the nonmathematicians have nothing than the story about Higgs from Alice, Bob, and the party [3].

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As there are more nonmathematicians, a construction for everybody is important. As long as this construction is by experiment not really wrong it is not justified to delete it as shown below. Besides it is not fair that only experts keep the knowledge without getting the Information to the mob, as done with the exaggerated “God particle”

As there are no other information the references are limited.