Significant comments

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#	Description	Link to source/ comments
1 1	Proton and neutron consist of a core and two shells around them	Robert Hofstadter the Nobel laureate
2 2 	The proton consists of two quarks "u" and a quark "d"	Murray Gell-Mann the Nobel laureate, and George Zweig
3 3 	The neutron consists of two quarks "d" and a quark "u"	Murray Gell-Mann the Nobel laureate, and George Zweig
	"Conditional quark" consists of a core and two shells	The assumption of the author
	Quark radius "- (0.47 · 10E-16 cm)2 < RE2 < (0.43 · 10E-16 cm)2"	https://arxiv.org/pdf/1604.01280.pdf
	Proton, a neutron can be represented as the sum of three matrices	The mathematical derivation of the author
7 7 	{x1, x2, x3, 0, 0} + {0, y1, y2, y3, 0} + {0, 0, x1, x2, x3}	View of three matrices for obtaining a proton, neutron
 8 	x1, y1 - quark cores	Usually, quarks proper in today's a view
 9 	{x1, x2+y1, x3+y2+x1, y3+x2, x3}	A schematic view of the matrix for a proton, neutron
 10	{x1, x2+y1, x3+y2+x1} - quark core	x1, y1 - quark cores
 11	{y3+x2, x3} - quark shells	x1, y1 - absent
 12 	The proposed approach allows one to obtain many different particles, including pseudo particles	This program does not include their calculation

Values of quarks 'u' and 'd' by shells in Qe (electron charges)

++	Index	+
1 2 3 4 5	uq1 uq2 uq3 dq1 dq2 dq3	0.066666666666665 0.5 0.15 0.06666666666666665 -0.5 0.15

Values of quarks "u" by shells

# Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm
1 uq11	1.0681177472653331e-20	um1	4.477669835812132e-28	uv1	-2.560432919260719e-44
2 uq21	8.01088310449e-20	um2	2.6285989484434786e-29	uv2	1.1428590474984059e-44
3 uq31	2.403264931347e-20	um3	1.2424998364766522e-28	uv3	5.402125647480323e-44

Values of quarks "d" by shells

#	Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm
1 2	dq11	1.0681177472653331e-20	dm1	4.49693787663576e-28	dv1	-2.5604329192607184e-44
	dq21	-8.01088310449e-20	dm2	2.632222259979773e-29	dv2	1.1428590474984059e-44
	dq31	2.403264931347e-20	dm3	1.2442125222380227e-28	dv3	5.402125647480323e-44

Detailed description for proton by shells

	L	4	+	L		4	_
# 	Charge sym.		Mass sym. +	Mass in kg. +	Volume sym. +	Volume in cbm	_
1	pq1	1.0681177472653331e-20	pm1	4.477669835812132e-28	pv1	-2.560432919260719e-44	ı
2	pq2	8.01088310449e-20	pm2	2.6285989484434786e-29	pv2	1.1428590474984059e-44	
3	pq3	1.0681177472653331e-20	pm3	4.49693787663576e-28	pv3	-2.5604329192607184e-44	
4	pq4	2.403264931347e-20	pm4	1.2424998364766522e-28	pv4	5.402125647480323e-44	
5	pq5	1.0681177472653331e-20	pm5	4.477669835812132e-28	pv5	-2.560432919260719e-44	

6	pq6	-8.01088310449e-20	pm6	2.632222259979773e-29	pv6	1.1428590474984059e-44
7	pq7	2.403264931347e-20	pm7	1.2442125222380227e-28	pv7	5.402125647480323e-44
8	pq8	8.01088310449e-20	pm8	2.6285989484434786e-29	pv8	1.1428590474984059e-44
9	pq9	2.403264931347e-20	pm9	1.2424998364766522e-28	pv9	5.402125647480323e-44

Detailed description for neutron, by shells

#	Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm
++- 1 2 3 4 5 6 7 8	nq1 nq2 nq3 nq4 nq5 nq6 nq7	1.0681177472653331e-20 -8.01088310449e-20 1.0681177472653331e-20 2.403264931347e-20 1.0681177472653331e-20 8.01088310449e-20 2.403264931347e-20 -8.01088310449e-20	+	4.49693787663576e-28 2.632222259979773e-29 4.477669835812132e-28 1.2442125222380227e-28 4.49693787663576e-28 2.6285989484434786e-29 1.2424998364766522e-28 2.632222259979773e-29	nv1 nv2 nv3 nv4 nv5 nv6 nv7	-2.5604329192607184e-44 1.1428590474984059e-44 -2.560432919260719e-44 5.402125647480323e-44 -2.5604329192607184e-44 1.1428590474984059e-44 5.402125647480323e-44 1.1428590474984059e-44

Values of quarks 'u' and 'd' by shells in Qe (electron charges) for pseudo particles

+	+	
#	 Index	Charge in the Qe
+ 1 2 3 4 5	psuq2 psuq3 psdq1 psdq2	1.166666666666667 -0.650000000000000001 0.15 -0.83333333333333334
6	psdq3	0.15

Values of quarks "u" by shells for pseudo particles

+	+		+	+	+	+
#	Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm
1	psuq11	1.8692060577143335e-19	 psum1	5.302786252707322e-28	psuv1	1.0409841790594949e-44

2	psuq21	-1.0414148035837002e-19	psum2	-9.792776104786757e-29	psuv2	-4.2592665999819155e-44	
3	psuq31	2.4032649313470004e-20	psum3	1.2442125222380227e-28	psuv3	5.402125647480323e-44	
						1	

Values of quarks "d" by shells for pseudo particles

# Charge sym.	Charge in Cl	Mass sym. 	Mass in kg.	Volume sym.	Volume in cbm
1 psdq11	-1.3351471840816668e-19	psdm1	5.329629698883688e-28	psdv1	1.0409841790594973e-44
2 psdq21	5.607618173143e-20	psdm2	-9.813526273936748e-29	psdv2	-4.259266599981917e-44
3 psdq31	2.403264931347e-20	psdm3	1.2424998364766522e-28	psdv3	5.402125647480323e-44

Detailed description for pseudo proton by shells

#	Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm	
1 2 3 4 5 6 7	pspq1 pspq2 pspq3 pspq4 pspq5 pspq6 pspq7	1.8692060577143335e-19 -1.0414148035837002e-19 -1.3351471840816668e-19 2.4032649313470004e-20 1.8692060577143335e-19 5.607618173143e-20 2.403264931347e-20 -1.0414148035837002e-19	pspm1 pspm2 pspm3 pspm4 pspm5 pspm6 pspm7	5.302786252707322e-28 -9.792776104786757e-29 5.329629698883688e-28 1.2442125222380227e-28 5.302786252707322e-28 -9.813526273936748e-29 1.2424998364766522e-28 -9.792776104786757e-29	pspv1 pspv2 pspv3 pspv4 pspv5 pspv6 pspv7	1.0409841790594949e-44 -4.2592665999819155e-44 1.0409841790594973e-44 5.402125647480323e-44 1.0409841790594949e-44 -4.259266599981917e-44 5.402125647480323e-44 -4.2592665999819155e-44	+
8	pspq8 pspq9	2.4032649313470004e-20	pspm8 pspm9	1.2442125222380227e-28	pspv8 pspv9	5.402125647480323e-44	

Detailed description for pseudo neutron by shells

L	L	L	L	L	L	L
#	Charge sym.	Charge in Cl	Mass sym.	Mass in kg.	Volume sym.	Volume in cbm
1	psnq1	-1.3351471840816668e-19	psnm1	5.329629698883688e-28	psnv1	1.0409841790594973e-44
2	psnq2	5.607618173143e-20	psnm2	-9.813526273936748e-29	psnv2	-4.259266599981917e-44
3	psnq3	1.8692060577143335e-19	psnm3	5.302786252707322e-28	psnv3	1.0409841790594949e-44
4	psnq4	2.403264931347e-20	psnm4	1.2424998364766522e-28	psnv4	5.402125647480323e-44
5	psnq5	-1.3351471840816668e-19	psnm5	5.329629698883688e-28	psnv5	1.0409841790594973e-44
6	psnq6	-1.0414148035837002e-19	psnm6	-9.792776104786757e-29	psnv6	-4.2592665999819155e-44
7	psnq7	2.4032649313470004e-20	psnm7	1.2442125222380227e-28	psnv7	5.402125647480323e-44

+	4		L	+-		+	+	+
	9	psnq9	2.403264931347e-20		psnm9	1.2424998364766522e-28	psnv9	5.402125647480323e-44
	8	psnq8	5.607618173143e-20		psnm8	-9.813526273936748e-29	psnv8	-4.259266599981917e-44