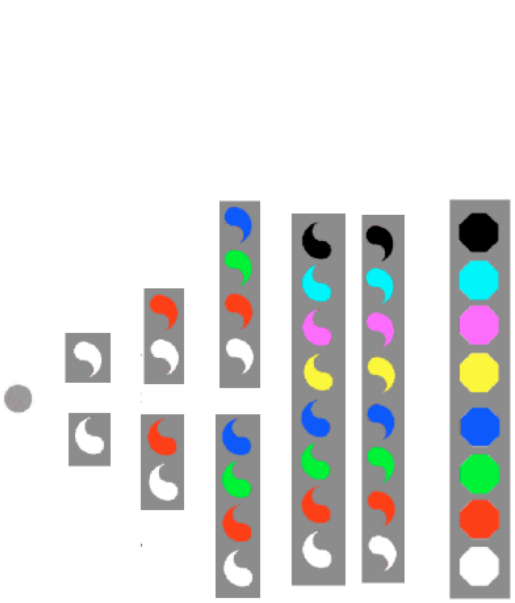
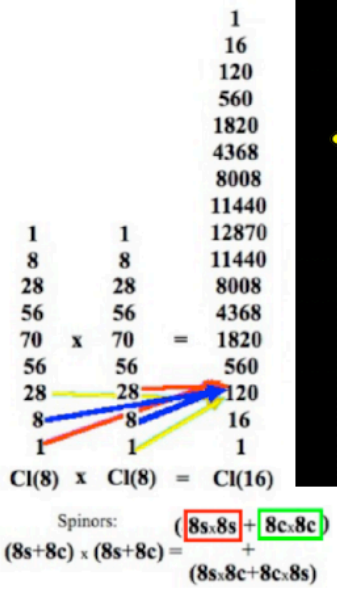
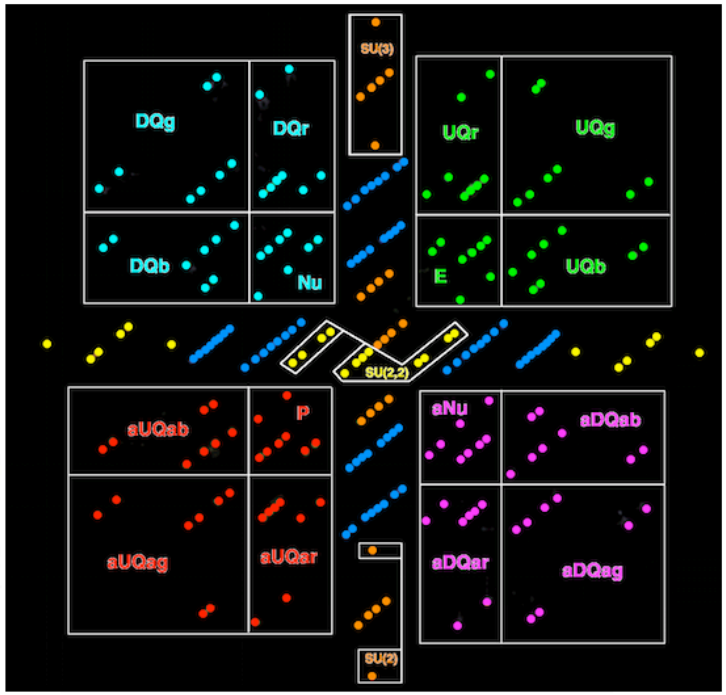






Cl(16) contains 120 + 64 + 64 = 248 = E8
with 112 + 128 = 240 root vectors

The completion of the union of all tensor products of Cl(16) = Cl(8)xCl(8) produces a generalized Hyperfinite II1 von Neumann factor that gives the Cl(16)-E8 model a natural Algebraic Quantum Field Theory

The Cl(16)-E8 AQFT inherits structure from the Cl(16)-E8 Local Lagrangian

The Creation-Annihilation Operator structure of Cl(16)-E8 AQFT is given by the Maximal Contraction of E8 = semidirect product A7 x h92 where h92 = 92+1+92 = 185-dim Heisenberg algebra and A7 = 63-dim SL(8)

240 E8 Root Vectors

112 = 56 + 56 = (24+32) + (24+32)
128 = 1+126+1

1 + 56 + 126 + 56 + 1

timeanddate.com

January 2016 (United States)

February 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31 New Year's Eve	1 New Year's Day	2 3rd Quarter
3	4	5	6 Epiphany	7 Orthodox Christmas Day	8	9 New Moon
10	11	12	13	14 Orthodox New Year	15	16 1st Quarter
17	18 Martin Luther King Day	19	20	21	22	23 Full Moon
24	25 Tu Bishvat/Tu B'Shevat	26	27	28	29	30
31 3rd Quarter	1	2	3	4	5	6

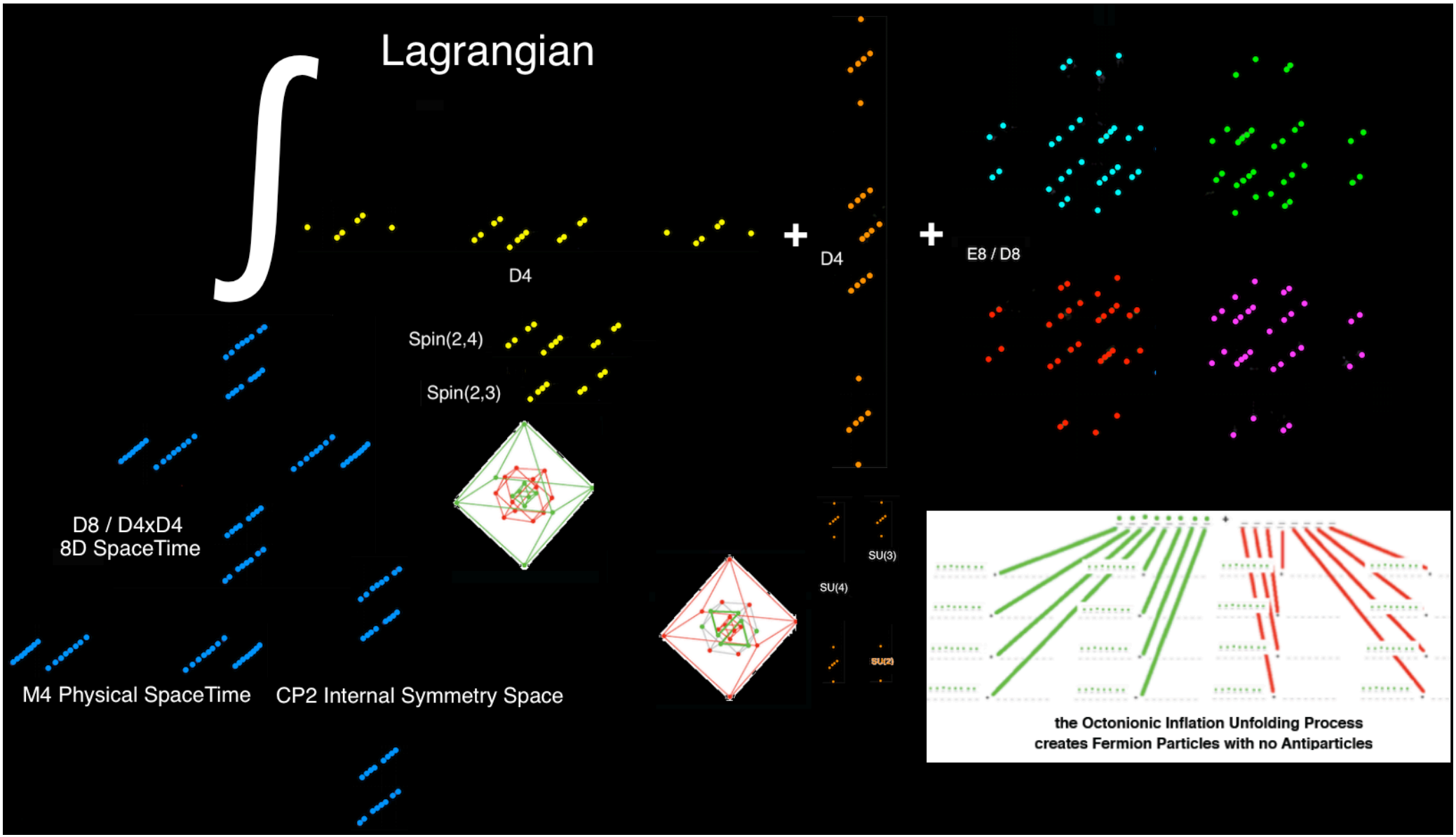
timeanddate.com

January 2016 (China)

February 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1 New Year's Day	2 New Year's weekend 3rd Quarter
3 New Year's weekend	4	5	6	7	8	9
10 New Moon	11	12	13	14	15	16
17 1st Quarter	18	19	20	21	22	23
24 Full Moon	25	26	27	28	29	30
31	1 3rd Quarter	2	3	4	5	6


Lagrangian
D4
D4
E8 / D8
Spin(2,4)
Spin(2,3)
SU(3)
SU(4)
SU(2)
D8 / D4xD4
8D SpaceTime
M4 Physical SpaceTime
CP2 Internal Symmetry Space
the Octonionic Inflation Unfolding Process
creates Fermion Particles with no Antiparticles

timeanddate.com

February 2016 (United States)

March 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31 3rd Quarter	1	2	3	4	5	6
7	8 New Moon	9	10 Ash Wednesday	11	12	13
14 Valentine's Day	15 Presidents' Day 1st Quarter	16	17	18	19	20
21	22 Full Moon	23	24	25	26	27
28	29	1 3rd Quarter	2	3	4	5

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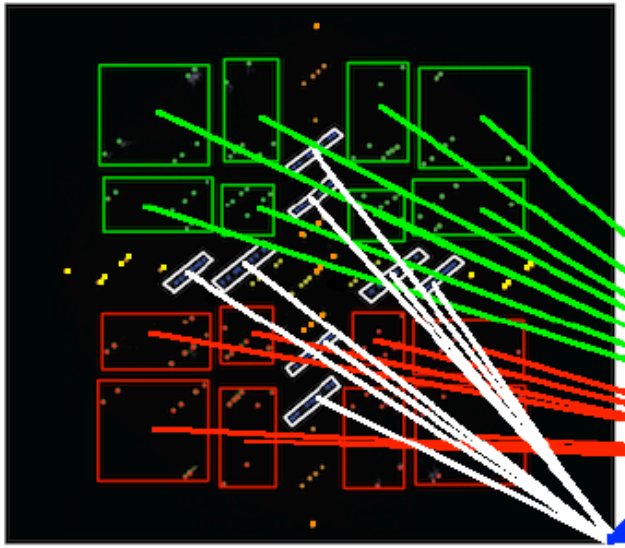
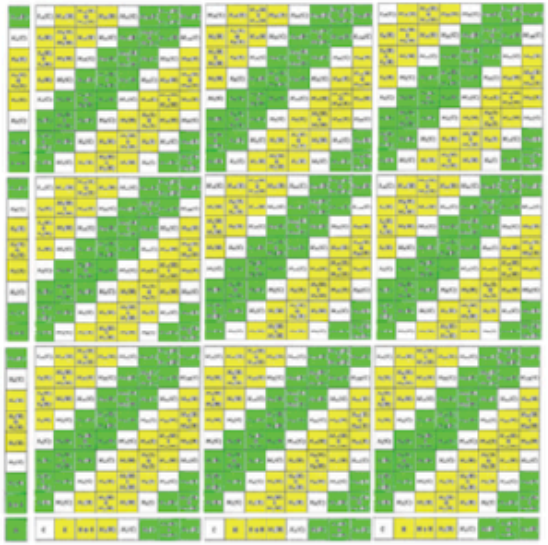
February 2016 (China)

March 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1 ◑ 3rd Quarter	2	3	4	5	6
7 Spring Festival Eve	8 Chinese New Year ● New Moon	9 Spring Festival Golden Week holiday	10 Spring Festival Golden Week holiday	11 Spring Festival Golden Week holiday	12 Spring Festival Golden Week holiday Spring Festival Golden Week holiday	13 Spring Festival Golden Week holiday Spring Festival Golden Week holiday
14	15 ◐ 1st Quarter	16	17	18	19	20
21	22 Lantern Festival	23 ○ Full Moon	24	25	26	27
28	29	1	2 ◑ 3rd Quarter	3	4	5





The Cl(16)-E8 AQFT inherits structure from the Cl(16)-E8 Local Lagrangian

$\int$ Standard Model Gauge Gravity + Fermion Particle-AntiParticle

8-dim SpaceTime

the Cl(16)-E8 model at the Planck Scale has spacetime condensing out of Clifford structures forming a Leech lattice underlying 26-dim String Theory of World-Lines with 8 + 8 + 8 = 24-dim of fermion particles and antiparticles and of spacetime.

Slices of 8v SpaceTime are represented as D8 branes. Each D8 brane has Planck-Scale Lattice Structure superpositions of 8 types of E8 Lattice denoted by 1E8, iE8, jE8, kE8, EE8, IE8, JE8, KE8

Stack D8 branes to get SpaceTime with Strings = World-Lines

Let Oct16 = discrete multiplicative group { +/-1, +/-i, +/-j, +/-k, +/-E, +/-I, +/-J, +/-K}.
Orbifold by Oct16 the 8s+ to get 8 Fermion Particle Types
Orbifold by Oct16 the 8s- to get 8 Fermion AntiParticle Types

Gauge Bosons from 1E8 and EE8 parts of a D8 give U(2) Electroweak Force
Gauge Bosons from IE8, JE8, and KE8 parts of a D8 give SU(3) Color Force
Gauge Bosons from 1E8, iE8, jE8, and kE8 parts of a D8 give U(2,2) Conformal Gravity

The 8x8 matrices for collective coordinates linking one D8 to the next D8 give Position x Momentum

The automorphism group of a single 26-dim String Theory cell modulo the Leech lattice is the Monster Group of order about 8 x 10^53.

When a fermion particle/antiparticle appearsTachyons create a cloud of particles/antiparticles. The cloud is one Planck-scale Fundamental Fermion Valence Particle plus an effectively neutral cloud of particle/antiparticle pairs forming a Kerr-Newman black hole.
That cloud constitutes the Schwinger Source.

The Schwinger Sources are finite regions in a Complex Domain spacetime corresponding to Green's functions of particle creation / annihilation.

Its structure comes from the 24-dim Leech lattice part of the Monster Group which is 2^(1+24) times the double cover of Co1, for a total order of about 10^26.

(Since a Leech lattice is based on copies of an E8 lattice and since there are 7 distinct E8 integral domain lattices there are 7 (or 8 if you include a non-integral domain E8 lattice)mdistinct Leech lattices.
The physical Leech lattice is a superposition of them, effectively adding a factor of 8 to the order.)

The volume of the Kerr-Newman Cloud is on the order of 10^27 x Planck scale, = roughly 10^(-24) cm.

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March 2016 (United States)

April 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1 ◑ 3rd Quarter	2	3	4	5
6	7	8 ● New Moon	9	10	11	12
13 Daylight Saving Time starts	14	15 ◐ 1st Quarter	16	17	18	19
20 Palm Sunday March equinox	21	22	23 ○ Full Moon	24 Maundy Thursday Purim	25 Good Friday	26 Holy Saturday
27 Easter Sunday	28 Easter Monday	29	30	31 ◑ 3rd Quarter	1	2

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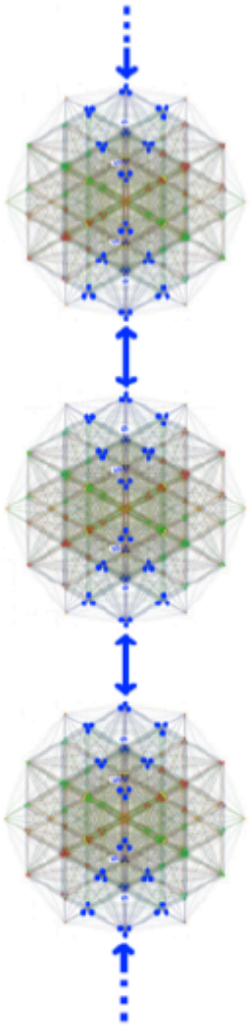
March 2016 (China)

April 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

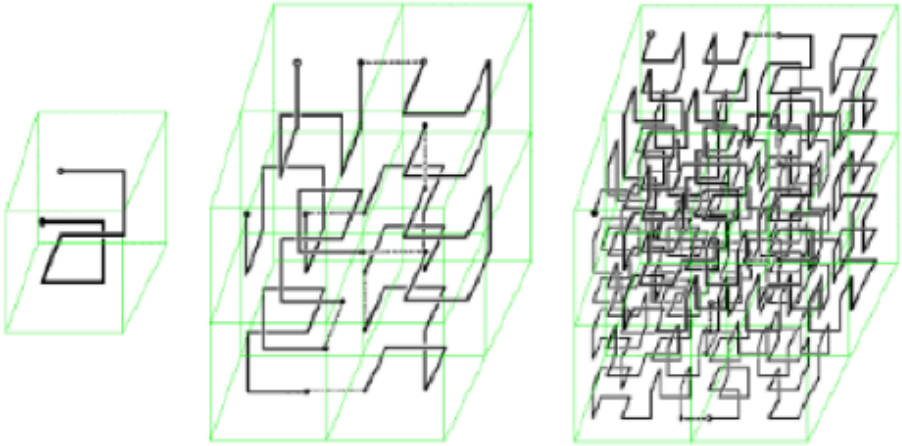
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1	2 ◑ 3rd Quarter	3	4	5
6	7	8 International Women's Day	9 ● New Moon	10 Zhonghe Festival	11	12 Arbor Day
13	14	15	16 ◐ 1st Quarter	17	18	19
20 March equinox	21	22	23 ○ Full Moon	24	25	26
27	28	29	30	31 ◑ 3rd Quarter	1	2

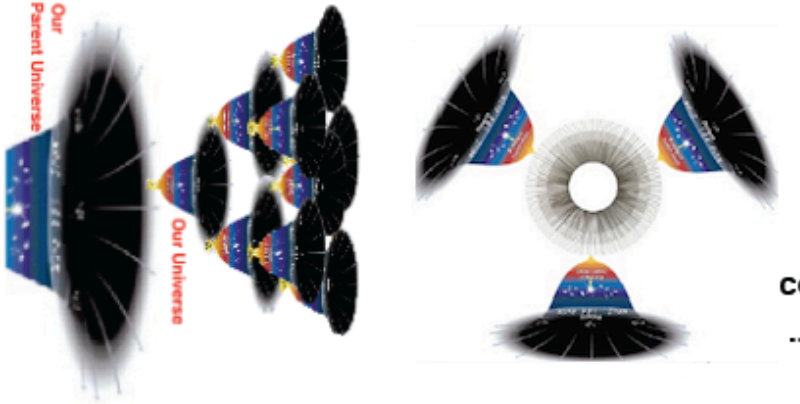


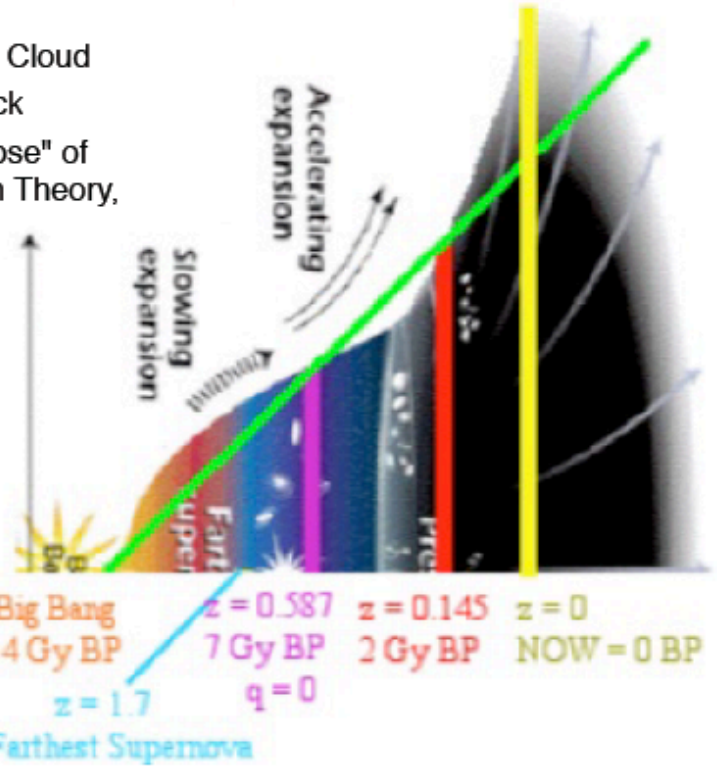
At the end of Non-Unitary Octonionic Inflation Our Universe
had about (1/2) 16^64 = (1/2) (2^4)^64 = 2^255 = 6 x 10^76 Fermion Particles
the size of our Universe was then about 10^(-24) cm
which is about the size of a Fermion Schwinger Source Kerr-Newman Cloud

The End of Inflation time was at about 10^(-34) sec = 2^64 Tplanck

The Zizzi Inflation phase of our universe ends with decoherence "collapse" of the 2^64 Superposition Inflated Universe into Many Worlds of Quantum Theory,







The ratio Dark Energy : Dark Matter : Ordinary Matter
for our Universe at the present time is calculated to be:
0.75 : 0.21 : 0.04

Paola Zizzi in gr-qc/0007006:
"... **The self-reduction of the superposed quantum state ... corresponds to a superposed state of ... [10^19 = 2^64 qubits] ... also the number of superposed tubulins-qubits in our brain ... leading to a conscious event**. ...".

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April 2016 (United States)

May 2016

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27 Easter Sunday	28 Easter Monday	29	30	31 3rd Quarter	1	2
3	4	5	6	7 New Moon	8	9
10	11	12	13 Thomas Jefferson's Birthday	14 1st Quarter	15	16
17	18	19	20	21	22 Full Moon	23 Passover (first day)
24	25 Confederate Memorial Day	26	27	28	29 Orthodox Good Friday 3rd Quarter	30 Last Day of Passover Orthodox Holy Saturday

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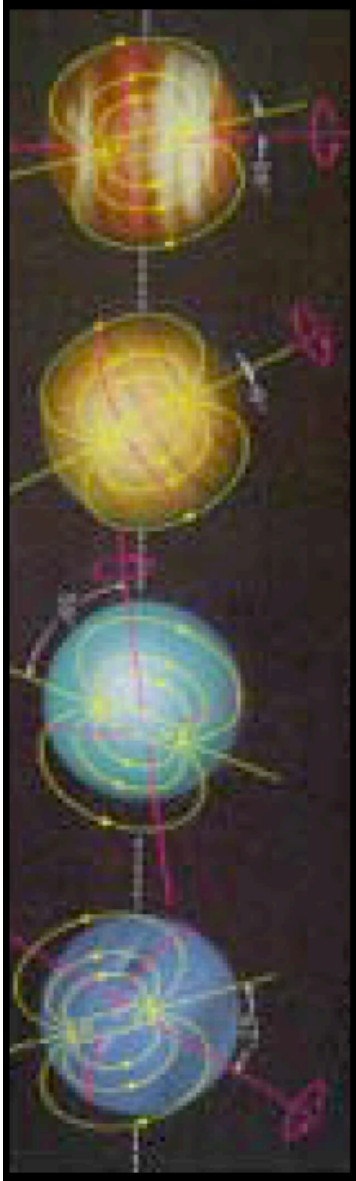
April 2016 (China)

May 2016

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31 ◑ 3rd Quarter	1	2
3	4 Qing Ming Jie	5	6	7 ● New Moon	8	9
10	11	12	13	14 ◐ 1st Quarter	15	16
17	18	19	20	21	22 ○ Full Moon	23
24	25	26	27	28	29	30 ◑ 3rd Quarter

CONFORMAL
KEPLER



0.72 AU
VENUS

MERCURY
0.39 AU

Octahedron
1 : sqrt(3)
1 : 1.7321

1 AU

MOON

EARTH

Icosahedron
1 : sqrt(15-6sqrt(5))
1 : 1.2584

Dodecahedron

MARS
1.52 AU

Tetrahedron
1 : 3

SelfDual

5.20 AU
JUPITER

Cuboctahedron
1 : 2
(square face inscribed radius)

Cube
1 : sqrt(3)
1 : 1.7321

SATURN
9.54 AU

Cuboctahedron
D3 Root Vectors
Conformal SU(2,2) =
= Spin(2,4)

NEPTUNE
30.06 AU

URANUS
19.19 AU

Pioneer
Anomaly
20 AU

Rhombic Dodecahedron
1 : sqrt(2)
1 : 1.4142

Cuboctahedron and Rhombic Dodecahedron
are 3-dim central figures of the 4-dim 24-cell

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May 2016 (United States)

June 2016

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Orthodox Easter	2 Orthodox Easter Monday	3	4 Yom HaShoah	5 Ascension Day Isra and Mi'raj	6 New Moon	7
8 Mother's Day	9	10	11	12 Yom Ha'atzmaut	13 1st Quarter	14
15 Pentecost	16 Whit Monday	17	18	19	20	21 Full Moon
22 Trinity Sunday	23	24	25	26 Corpus Christi Lag BaOmer	27	28
29 3rd Quarter	30 Memorial Day	31	1	2	3	4 New Moon

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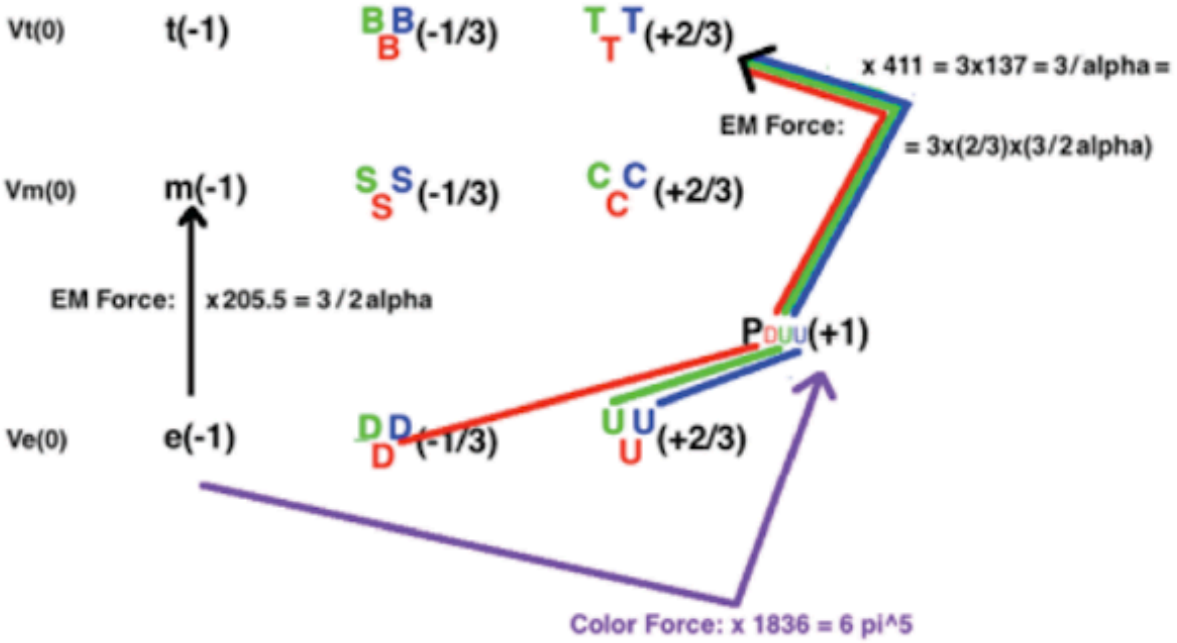
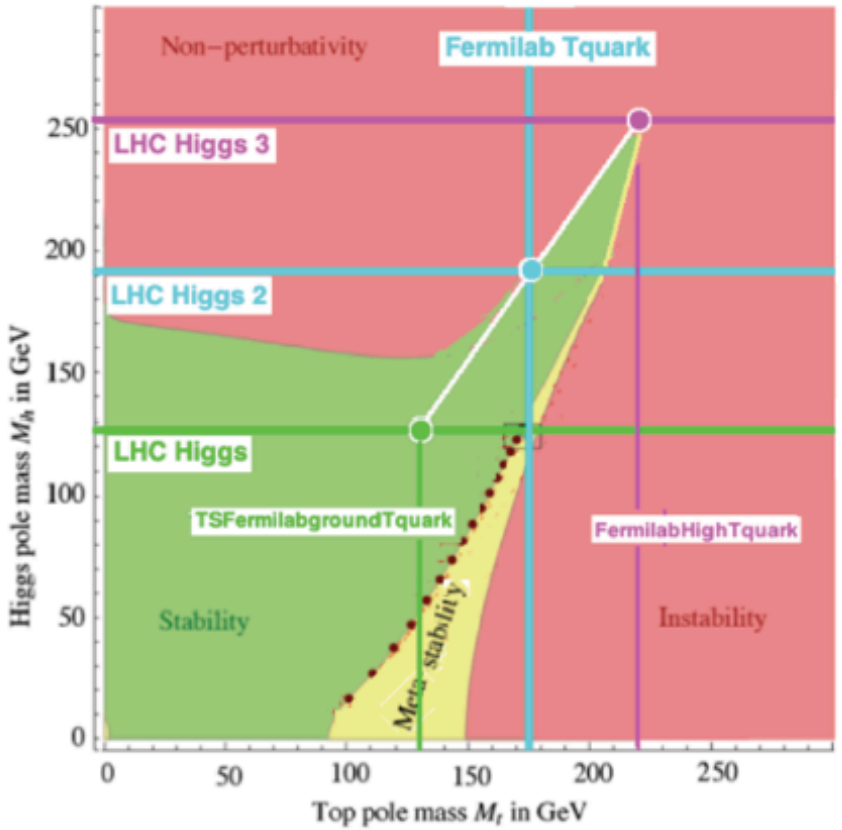
May 2016 (China)

June 2016

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Labour Day	2	3	4 Youth Day	5	6	7 ● New Moon
8	9	10	11	12	13	14 ◐ 1st Quarter
15	16	17	18	19	20	21
22 ○ Full Moon	23	24	25	26	27	28
29 ◑ 3rd Quarter	30	31	1 Children's Day	2	3	4





The Schwinger Sources are finite regions in a Complex Domain spacetime corresponding to Green's functions of particle creation / annihilation.

The force strength of a given force is

(1 / Mforce^2) (Vol(MISforce)) (Vol(Qforce) / Vol(Dforce)^(1 / mforce))

Mforce represents the effective mass;

mforce is 4 for Gravity and Color force, 2 for Weak force 1 for Electromagnetism

Vol(Dforce)^(1 / mforce) is to reconcile

the dimensionality of the Internal Symmetry Space of the target vertex

with the dimensionality of the link from the origin to the target vertex

Force	M	Vol(M)	Group	SymSpace	D	Vol(D)	Q	Vol(Q)
gravity	S^4	8pi^2/3	Spin(5)	Spin(7) / Spin(5)xU(1)	IV5	pi^5/2^4 5!	RP^1xS^4	8pi^3/3
color	CP^2	8pi^2/3	SU(3)	SU(4) / SU(3)xU(1)	B^6(ball)	pi^3/6	S^5	4pi^3
Weak	S^2xS^2	2x4pi	SU(2)	Spin(5) / SU(2)xU(1)	IV3	pi^3/24	RP^1xS^2	4pi^2
e-mag	T^4	4x2pi	U(1)	-	-	-	-	-

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June 2016 (United States)

July 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29 3rd Quarter	30 Memorial Day	31	1	2	3	4 New Moon
5	6	7 Ramadan starts	8	9	10	11
12 Shavuot 1st Quarter	13	14	15	16	17	18
19 Father's Day Juneteenth	20 June Solstice Full Moon	21	22	23	24	25
26	27 3rd Quarter	28	29	30	1	2 Lailat al-Qadr

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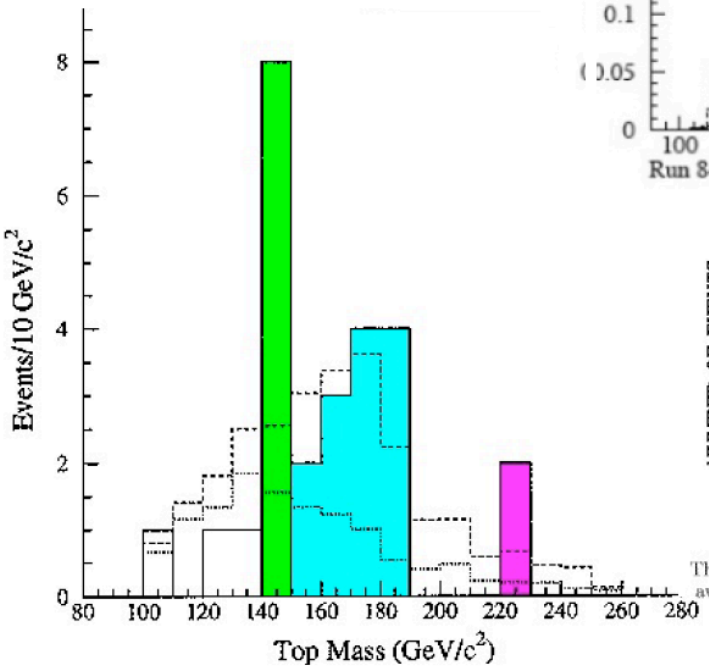
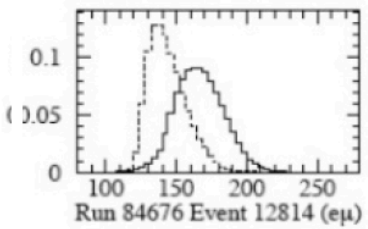
June 2016 (China)

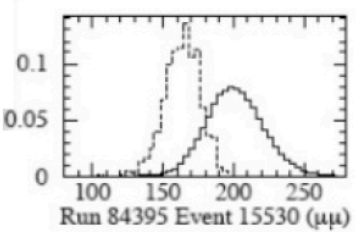
July 2016

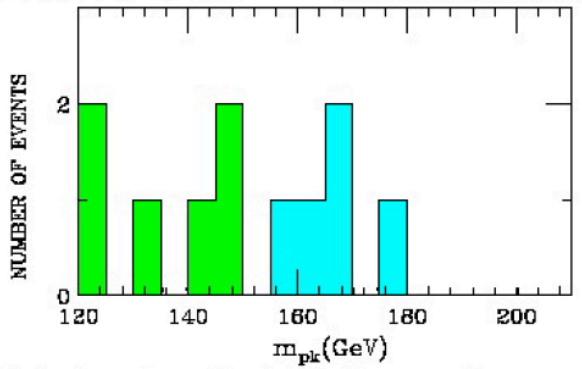
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29 ◑ 3rd Quarter	30	31	1 Children's Day	2	3	4
5 ● New Moon	6	7	8	9 Dragon Boat Festival	10	11
12 ◐ 1st Quarter	13	14	15	16	17	18
19	20 ○ Full Moon	21 June Solstice	22	23	24	25
26	27	28 ◑ 3rd Quarter	29	30	1 CPC Founding Day	2

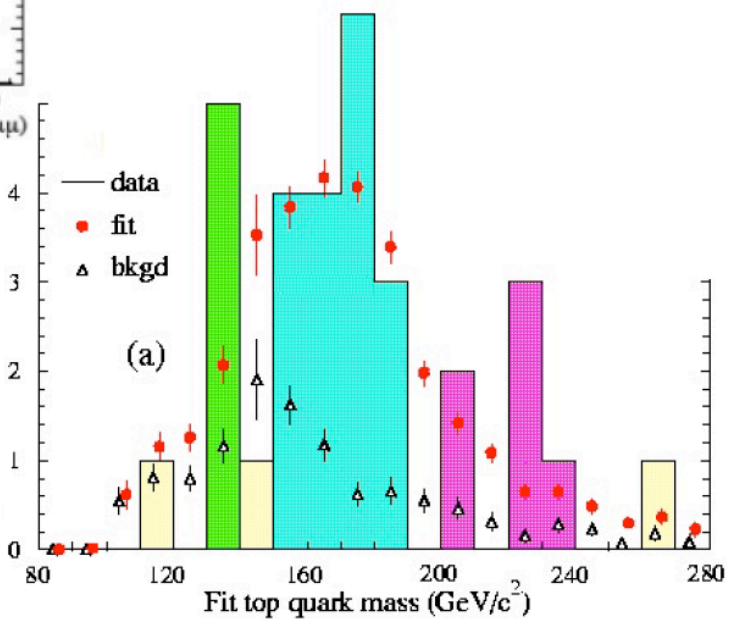


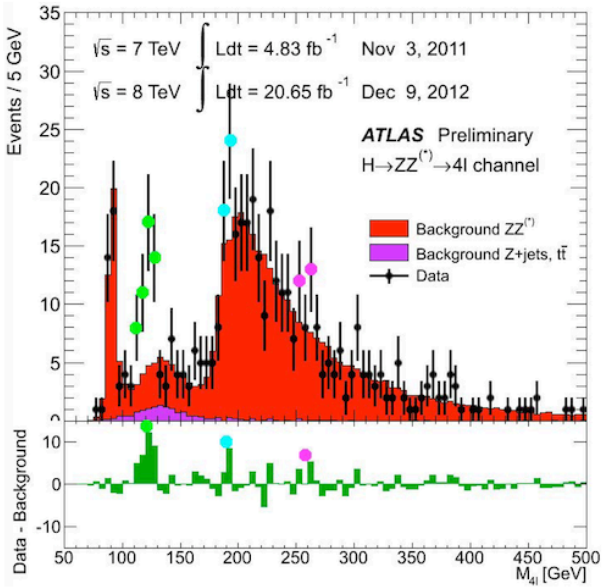


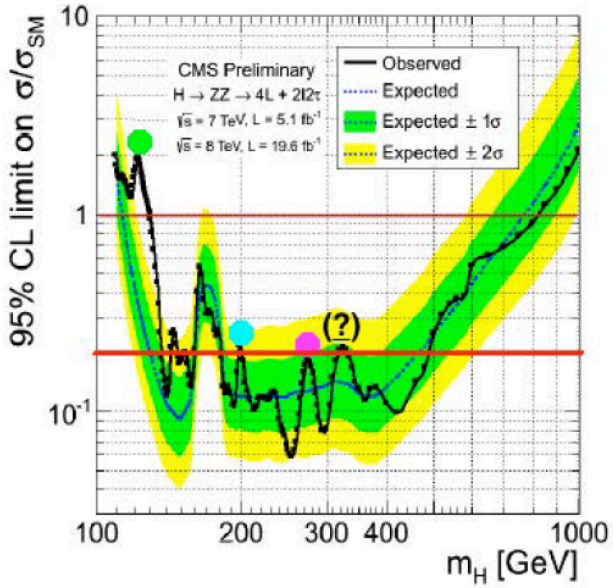


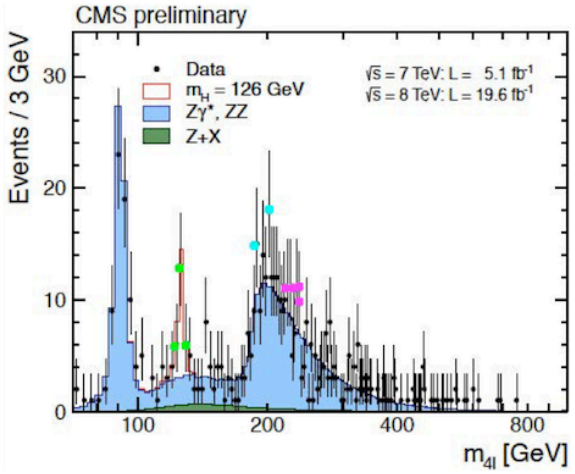


The distribution of m_{pk} values determined from 11 CDF dilepton events available empirically.









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July 2016 (United States)

August 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27 3rd Quarter	28	29	30	1	2 Lailat al-Qadr
3	4 Independence Day New Moon	5	6	7 Eid al-Fitr	8	9
10	11 1st Quarter	12	13	14	15	16
17	18	19 Full Moon	20	21	22	23
24	25	26 3rd Quarter	27	28	29	30
31	1	2 New Moon	3	4	5	6

timeanddate.com

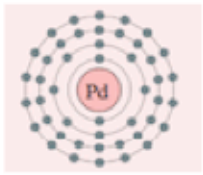
July 2016 (China)

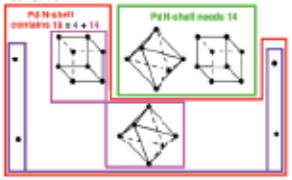
August 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

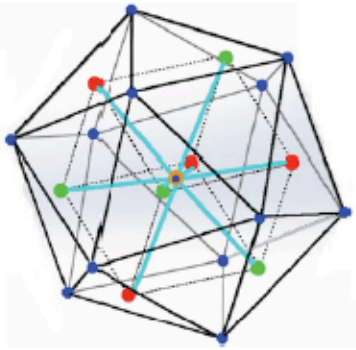
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28 3rd Quarter	29	30	1 CPC Founding Day	2
3	4 New Moon	5	6	7	8	9
10	11 Maritime Day	12 1st Quarter	13	14	15	16
17	18	19	20 Full Moon	21	22	23
24	25	26	27 3rd Quarter	28	29	30
31	1 Army Day	2	3 New Moon	4	5	6

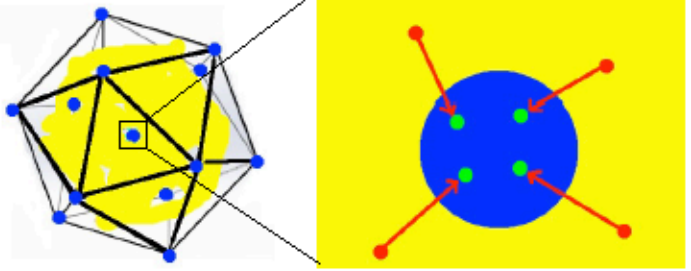
Schwinger Pd-D Zeolite
Quantum Fusion Process:



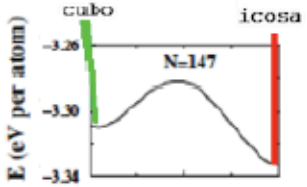


Akito Takahashi TSC Pd-D Fusion



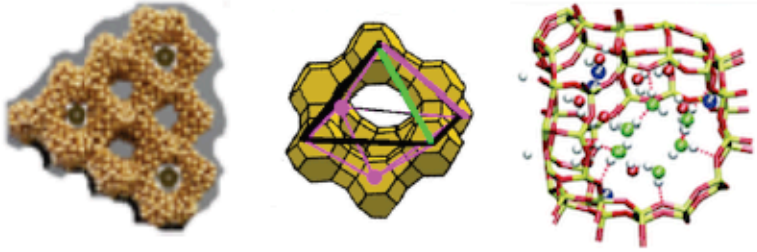


4He + 4He
+
47.6 MeV

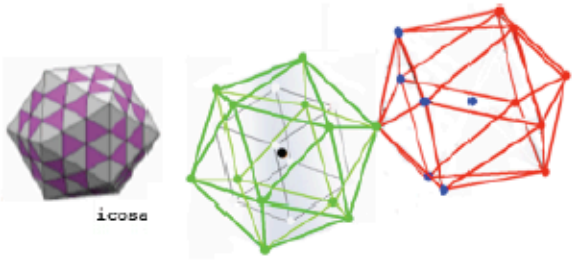


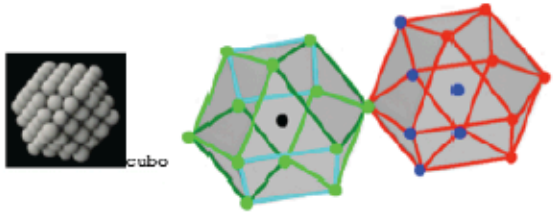
Peter Hagelstein F-W BreakDown for Nuclear Energy to Pd Structure

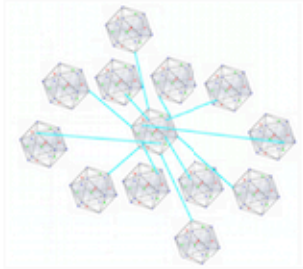
Transfer Pd Structure Energy to Zeolite



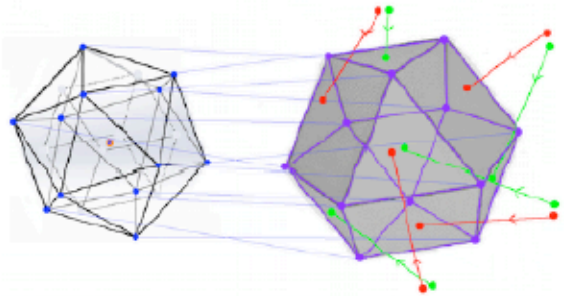
Sandia-UNM 147-atom Pd Clusters

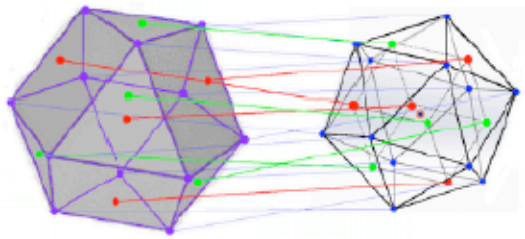


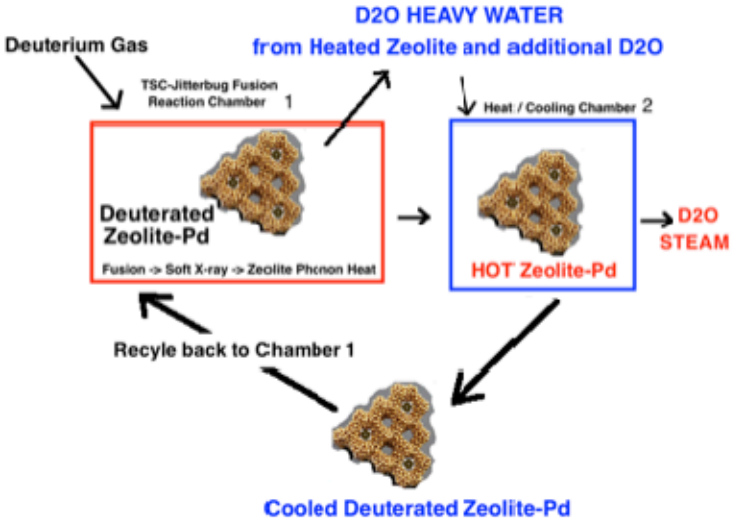




Klee Irwin Jitterbug Eject He and Reload D







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August 2016 (United States)

September 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2 New Moon	3	4	5	6
7	8	9	10 1st Quarter	11	12	13
14 Tisha B'Av	15 Assumption of Mary	16	17	18 Full Moon	19	20
21	22	23	24 3rd Quarter	25	26	27
28	29	30	31	1 New Moon	2	3

timeanddate.com

August 2016 (China)

September 2016

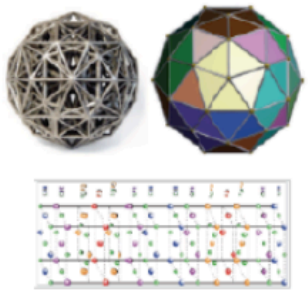
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

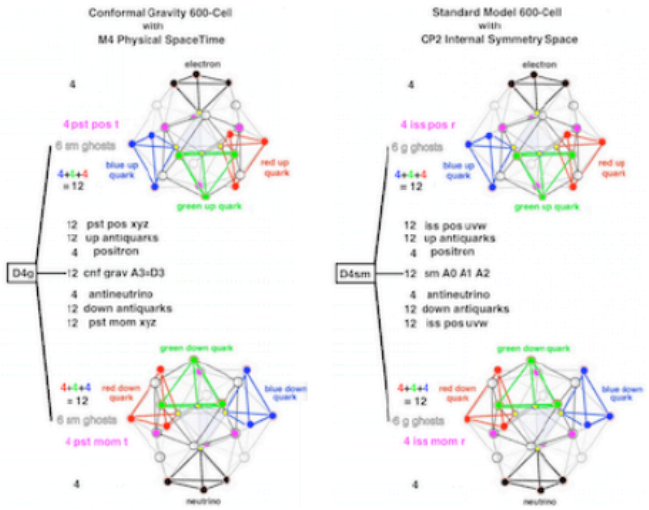
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1 Army Day	2	3 New Moon	4	5	6
7	8	9 Double Seven Festival	10	11 1st Quarter	12	13
14	15	16	17 Spirit Festival	18 Full Moon	19	20
21	22	23	24	25 3rd Quarter	26	27
28	29	30	31	1 New Moon	2	3

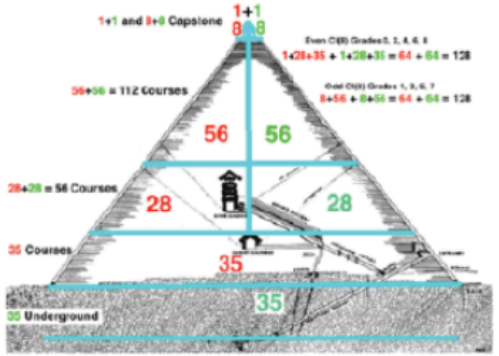
Each QRC State, analagous to a Possible Conscious Thought, is represented by a Chain of Local E8-Cl(16) Deutsch-type Multiverse Snapshots
Each of the Local E8-Cl(16) Multiverse Snapshots is described by an E8 State. Since E8 has 240 Root Vectors and
the 240 Root Vectors correspond to the 240-Polytope (see "Geometric Frustration" by Sadoc and Mosseri (Cambridge 2006) where they say

"The polytope 240 ...[is]... not a regular polytope ... but ... an ordered structure on a hypersphere ... S3 ... which is chiral ...
generated by adding two replicas of the {3,3,5}, displaced along a screw axis of S3 ...".)

each Local E8-Cl(16) Multiverse Snapshot is represented by a pair of {3,3,5} 600-cells.







Green, Schwartz, and Witten say in their book "Superstring Theory" vol. 1 (Cambridge 1986)
"... For the ... closed ... bosonic string .... The first excited level ... consists of ...
the ground state ... tachyon ... and ... a scalar ... 'dilaton' ... and ...
SO(24) ... little group of a ...[26-dim]... massless particle ... and ...
a ... massless ... spin two state ...".

Closed string tachyons localized at orbifolds of fermions produce virtual clouds of particles / antiparticles that dress fermions.

Dilatons are Goldstone bosons of spontaneously broken scale invariance that (analagous to Higgs) go from mediating a long-range scalar gravity-type force to the nonlocality of the Bohm-Sarfatti Quantum Potential.

The SO(24) little group is related to the Monster automorphism group that is the symmetry of each cell of Planck scale local lattice structure.

The massless spin two state is the carrier of the Bohm-Sarfatti Quantum Potential.

Peter R. Holland says in his book "The Quantum Theory of Motion" (Cambridge 1993)
"... the total force ... from the quantum potential ... does not ... fall off with distance ... because ... the quantum potential ... depends on the form of ...[the quantum state]... rather than ... its ... magnitude ...".

First consider Superposition of States involving one tubulin
with one electron of mass m and two different position states separated by a .
The Superposition Separation Energy Difference is the gravitational energy

$$E_{electron} = G\, m^2 / a$$

For any single given tubulin a = 1 nanometer = 10^(-7) cm so that for a single Electron

$$T = h / E_{electron} = (\text{Compton} / \text{Schwarzschild}) (a / c) = 10^{26} \text{ sec} = 10^{19} \text{ years}$$

Now consider the case of N Tubulin Electrons in Coherent Superposition
Jack Sarfatti defines coherence length L by L^3 = N a^3 so that
the Superposition Energy E_N of N superposed Conformation Electrons is

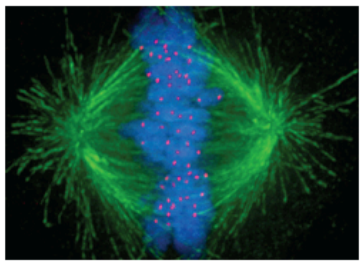
$$E_N = G\, M^2 / L = N^{(5/3)}\, E_{electron}$$

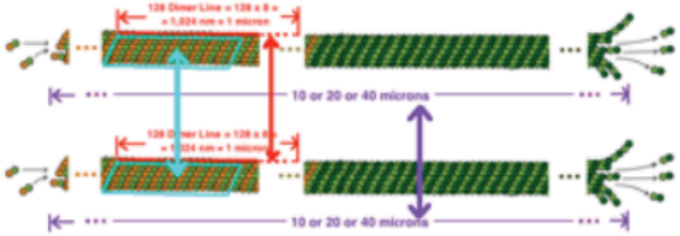
The decoherence time for the system of N Tubulin Electrons is

$$T_N = h / E_N = h / N^{(5/3)}\, E_{electron} = N^{(-5/3)}\, 10^{26} \text{ sec}$$

Number of Involved Tubulin Dimers	Time T_N	
10^(11+9) = 10^20	10^(-33 + 26) = 10^(-7) sec	10^11 neurons x 10^9 TD / neuron
10^16	10^(-27 + 26) = 10^(-1) sec - 10 Hz - Human Alpha EEG is 8 to 13 Hz -	

Fundamental Schumann Resonance is 7.8 Hz -
Time of Hamiltonian Circuit of 10^16 TD separated from nearest neighbors
by 10 nm is 10^16 x 10 nm / c = (10^16 x 10^(-6)) cm / c = 10^10 cm / c = 0.3 sec -





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September 2016 (United States)

October 2016

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1 New Moon	2	3
4	5 Labor Day	6	7	8	9 1st Quarter	10
11	12	13 Eid al-Adha	14	15	16 Full Moon	17
18	19	20	21	22 September equinox	23 3rd Quarter	24
25	26	27	28	29	30 New Moon	1

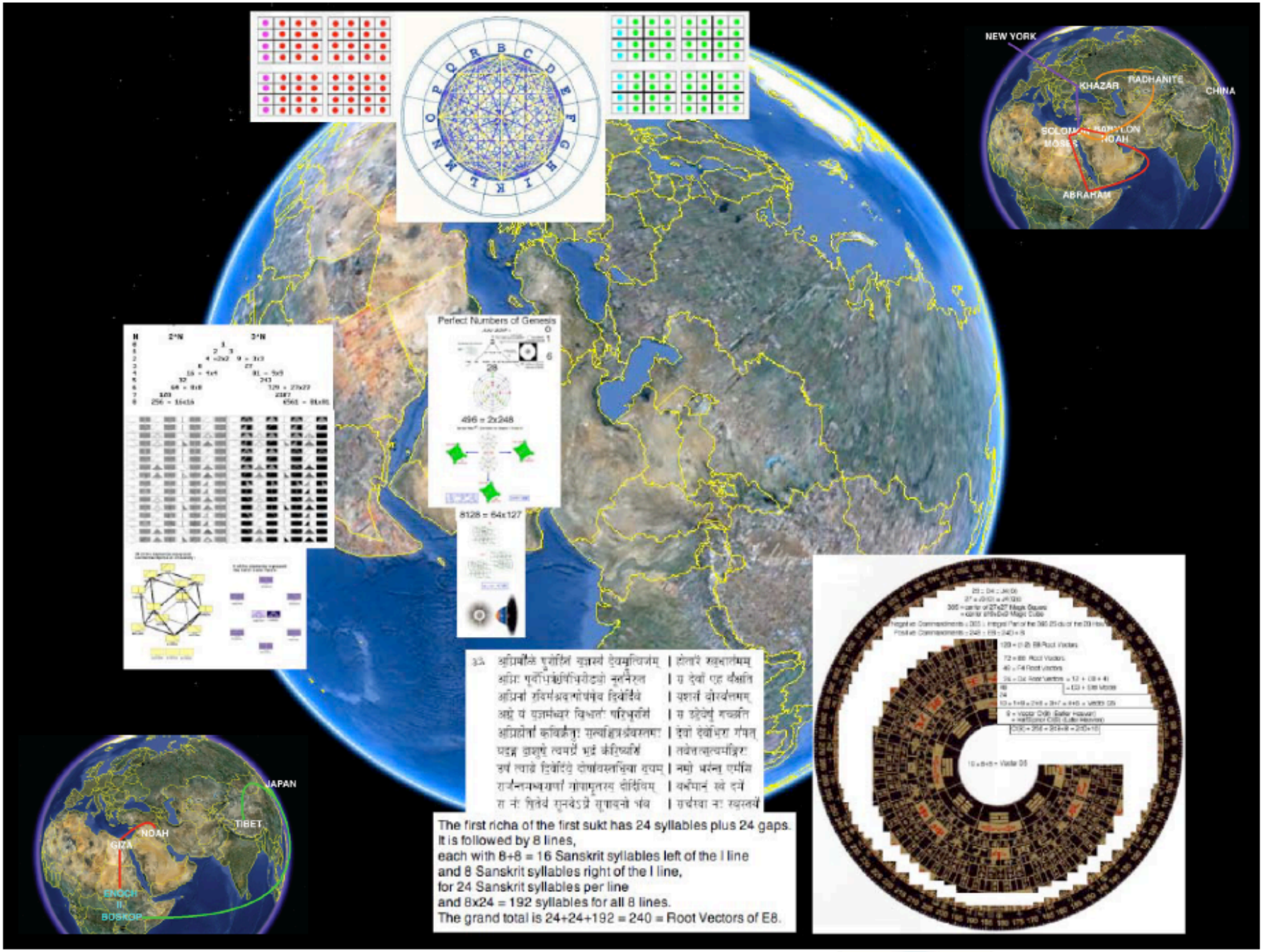
timeanddate.com

September 2016 (China)

October 2016

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1 New Moon	2	3
4	5	6	7	8	9 1st Quarter	10 Teachers' Day
11	12	13	14	15 Mid-Autumn Festival	16	17 Full Moon
18	19	20	21	22 September equinox	23 3rd Quarter	24
25	26	27	28	29	30	1 National Day New Moon



The first richa of the first sukt has 24 syllables plus 24 gaps.
It is followed by 8 lines,
each with 8+8 = 16 Sanskrit syllables left of the I line
and 8 Sanskrit syllables right of the I line,
for 24 Sanskrit syllables per line
and 8x24 = 192 syllables for all 8 lines.
The grand total is 24+24+192 = 240 = Root Vectors of E8.

timeanddate.com

October 2016 (United States)

November 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30 New Moon	1
2	3 Muharram Rosh Hashana	4 Feast of St Francis of Assisi	5	6	7	8
9 1st Quarter	10 Columbus Day	11	12 Yom Kippur	13	14	15
16 Full Moon	17 First Day of Sukkot	18	19	20	21	22 3rd Quarter
23 Last Day of Sukkot	24 Shmini Atzeret	25 Simchat Torah	26	27	28	29
30 New Moon	31 Halloween	1 All Saints' Day	2 All Souls' Day	3	4	5

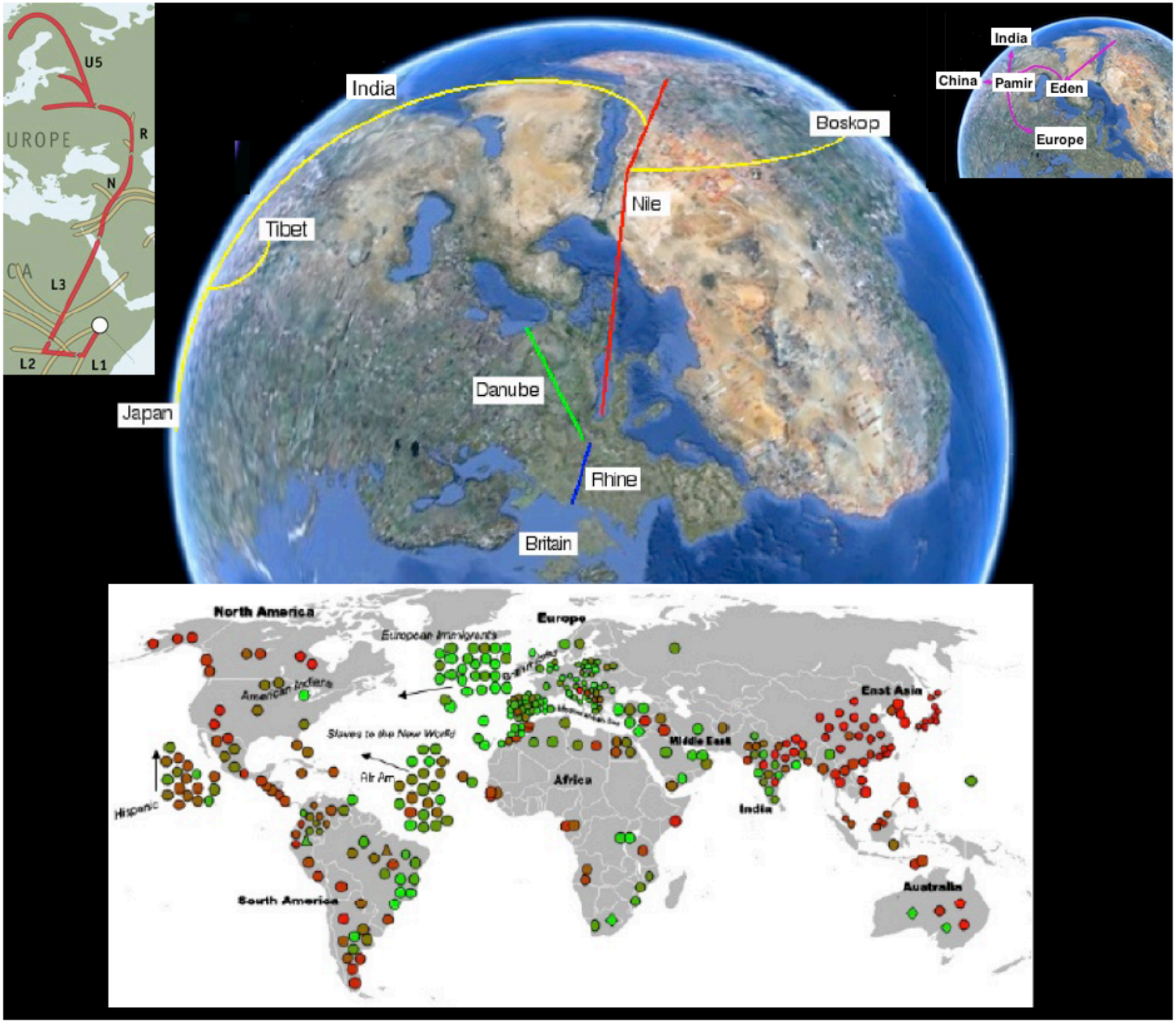
timeanddate.com

October 2016 (China)

November 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1 National Day ● New Moon
2 National Day Golden Week holiday	3 National Day Golden Week holiday	4 National Day Golden Week holiday	5 National Day Golden Week holiday	6 National Day Golden Week holiday	7 National Day Golden Week holiday	8
9 Double Ninth Festival ◐ 1st Quarter	10	11	12	13	14	15
16 ○ Full Moon	17	18	19	20	21	22
23 ◑ 3rd Quarter	24	25	26	27	28	29
30	31 ● New Moon	1	2	3	4	5


U5
UROPE
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L2
L1
India
Boskop
Tibet
Nile
Danube
Japan
Rhine
Britain
India
China
Pamir
Eden
Europe
North America
Europe
European Immigrants
American Indians
Slaves to the New World
Hispanic
Africa
Middle East
East Asia
India
Australia
South America

timeanddate.com

November 2016 (United States)

December 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30 New Moon	31 Halloween	1 All Saints' Day	2 All Souls' Day	3	4	5
6 Daylight Saving Time ends	7 1st Quarter	8 Election Day	9	10	11 Veterans Day	12
13	14 Full Moon	15	16	17	18	19
20	21 3rd Quarter	22	23	24 Thanksgiving Day	25 Robert E Lee's Birthday	26
27 First Sunday of Advent	28	29 New Moon	30	1	2	3

timeanddate.com

November 2016 (China)

December 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31 New Moon	1	2	3	4	5
6	7	8 Journalists' Day 1st Quarter	9	10	11	12
13	14 Full Moon	15	16	17	18	19
20	21 3rd Quarter	22	23	24	25	26
27	28	29 New Moon	30	1	2	3

timeanddate.com

December 2016 (United States)

January 2017

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27 First Sunday of Advent	28	29 New Moon	30	1	2	3
4	5	6	7 1st Quarter	8 Feast of the Immaculate Conception	9	10
11	12 The Prophet's Birthday	13 Full Moon	14	15	16	17
18	19	20 3rd Quarter	21 December Solstice	22	23	24 Christmas Eve
25 Christmas Day Chanukah/Hanukkah (first day)	26 'Christmas Day' observed	27	28	29 New Moon	30	31 New Year's Eve

timeanddate.com

December 2016 (China)

January 2017

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29 New Moon	30	1	2	3
4	5	6	7 1st Quarter	8	9	10
11	12	13	14 Full Moon	15	16	17
18	19	20	21 December Solstice 3rd Quarter	22	23	24
25 Christmas Day	26	27	28	29 New Moon	30	31