Deities as Algebraic Dimensions and Kissing Numbers

Assume that consciousness is an algebraic space, where each dimension is an independent Deity. Each Deity has a unique perception of reality, while all Deities form the "objective reality", similarly to how Kuramoto oscillators synchronize.

Consider exceptional spaces with unusually high symmetricity for which "kissing number" (K_N) is known: N = 1, 2, 4, 8, 24. Add 240 for Universal Intellect (see below) or 248 – dimensionality of E_8 Lie group (Octonion-octonionic algebra, see Eric Weinstein).

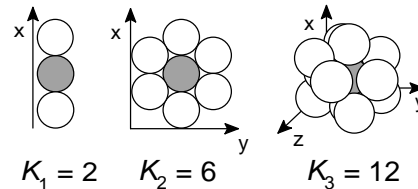**Figure 1**. Kissing Number - the number of unit spheres that can touch a common unit sphere

$K_1 = 2$ $K_2 = 6$ $K_3 = 12$

Table 1 shows that the obtained sequence follows double-exponent 2^{F_n} (where F_n is Fibonacci number, which by itself is exponent of n).

Table 1. Correlations between 2^{F_n}, N and K_N

n	0	1	2	3	4	5	6	7	8	9
F_n	0	1	1	2	3	5	8	13	21	34
2^{F_n}	1	2	2	4	8	32	256	8196	~$2 \cdot 10^6$	~$2 \cdot 10^{10}$
N	1	2	3	4	8	24	240 or 248			
K_N	2	6	12	24	240	~$2 \cdot 10^5$	~10^{47*}	~$10^{1,600*}$		

* Estimated from $K_N \sim 10^{N/5}$

This allows us to extend the sequence of N, explaining the existence of millions of Deities in Hinduism and Shintoism, and suggesting that every human can be considered as a "Deity of lower rank".

A more detailed analysis is given in Table 2 (next page). The higher number of Deities corresponds to the higher consciousness. Thus, recognizing only one God corresponds to the primitive machine logics (1st row, 5th and 6th columns), whereas recognizing hundreds of Deities corresponds to the intellect of God (6th row, 5th and 6th columns).

Table 2. Relations between 2^{F_n}, exceptional spaces, numbers of Deities and consciousness

n	F_n	2^{F_n}	Algebraic Dimensions	Philosophy and Mysticism: Deities	Consciousness of	Intellect K_N
0	0	1	1 – real numbers	Absolute, Singularity, One God	Formal Logic	2
1	1	2	2 – complex numbers	Yin & Yang: duality of *Kami mind;* Relative *vs.* Absolute; Formality *vs* Love; Destruction *vs.* Creation	Manipulative logic	6
2	1	2	3 – physical space*	Holy Trinity ?	Spatial thinking	12
3	2	4	4 – quaternions, 24-cell & animation	4 realms (matter, feelings, thoughts, aetheric fields), elements, directions, characters, nucleotides, *etc.*	"Pure Mind" Humans, cells, atoms	24
4	3	8	8 – octonions, E_8 lattice & animation	8-point swastika, 4+4 family energies; 8 Hindu Vasus (material elements)	"Mitotic Mind", Earth, growing trees, dividing cells	240
5	5	32	24 – Λ_{24} lattice & animation	4! = 24 Celtic Gods, Stonehenge, Arkaim, Emotional energies in Atlas; hours, ancient months; 24 protective deities; 33 Hindu Koti (types of Gods); 24-33 letters in alphabets;	Pure Love, Sun, Stars, "plasmic consciousness"	~10^5
6	8	256	240 or 248- E_8 Lie group, octonion-octonions	No of Atlas' cells; dimensions to explain the Universe in my book & article, also Eric Weinstein over *400 Celtic Gods*	God, Universe, Brahman?	~10^{47}
7	13	8,196		*3 10^3 ancient Kami*	Multiverse?	~$10^{1,600}$
8	21	$2 \cdot 10^6$		8 million Kami *33 or 330 million Hindu Deities*		
9	34	$17 \cdot 10^9$		*10^{10} – max number of people?*		
10	55	$4 \cdot 10^{16}$				
11	89	$6 \cdot 10^{26}$		*$6 \cdot 10^{24} = 24!$ – no of Stars*		
12	144	$2 \cdot 10^{43}$		*$(24!)^2$ ~10^{47} – No of living creatures*		
13	233	10^{70}		*10^{80} – no of protons*		
14	377	$3 \cdot 10^{113}$		*10^{143} – no of aetheric particles*		
15	610	$4 \cdot 10^{183}$				
21	10.946	$10^{3,295}$		*No of protons in multiverse?*		

* 3D - non-isomorphic space; **Italic denotes only very remote correspondence

The situation is more complex than that, as the number of Deities recognized by a given consciousness looks closer to its K_N than N

This can be explained by the circular "causation" of the higher spaces (N > 3) that has sound mystical explanation. A given mind yields the next mind in clockwise direction, while being related to its diagonal counterpart through equality of the lower space's K_N to the higher space's N
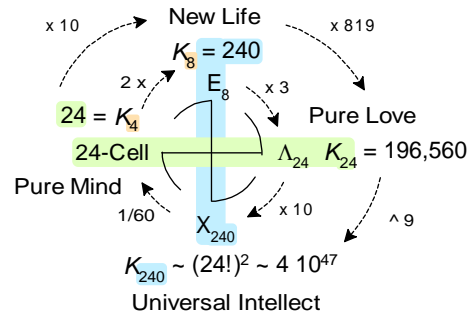

Figure 2. Circular causation from [Algebra and Panpsychism](#), p. 21

Clockwise reasoning is as follows. Pure Mind yields New Life, like parents give birth to a child. New Life yields Pure Love, like newborn child lights a star. Pure Love, yields the Universe, like coherent light creates a hologram. Universal Intellect yields Pure Mind, like Divine Spirit supports existing Life.

Diagonal relations arise from "nurturing obligations". Pure Love nurtures (fulfils desires of) Pure Minds, so 24 dimensions of Pure Love also become Deities for Pure Minds ("honest people"). Universal Intellect nurtures New Lives (newborns), so 240 Deities of the former become Deities of the latter. Both 24 and 240 originate from combinatorial considerations (see [Algebra and Pnapsychism](#) from p. 17 and [Kak Ustroen Mir](#) from p. 111), and resemble the numbers of segments and cells in the [Atlas of Feelings](#)

So, cultivating the full potential of one's intellect (K_N) aids realization of the higher intellect in diagonal direction (as K_N becomes N). If we live happily, then Stars shine glowingly. If New Lives are happy, then Universe flourishes. In other words, people should cultivate 20-30+ Deities that naturally match the number(s) of their kids and/or "emotional energies" that constitute their psyche. Coincidently, this also corresponds to the numbers of letters in various alphabets

Cultivating millions of Deities like in Hinduism and Shintoism may occasionally "lift the spirit", but it cannot do so permanently, as these Deities do not participate in the every-day decision-making. On the other hand, the Universal Intellect permanently considers all 10^{47} living creatures as Deities, which distinguishes Him from Humans.

The four higher intellects (N > 3) form a self-regulating system, similarly to how independent Deities form a single consciousness. This yields an "extra-dimensional dimension" that may serve as an entry point to the higher realm of "Multiverse". The latter may further yield an even higher "extra-dimensional dimension", and so on to infinity. This may explain the eternity of the world: nothing can be destroyed, as the realm is infnite

Such effects do not apply for the lower dimensions (N < 4), as their non-commutativity makes them indifferent to the sequence of transformations. This makes the "arrow of time" reversible, so no commitment for extra-dimensional induction.

Rows with n = 5, 8, 13, 21 are marked in grey, as their n represent Fibonacci numbers (see the first two columns). This means that the second column represents $F(F_n)$ that must be more meaningful than F_n. (If F_n is more meaningful than n, then $F(F_n)$ must be more meaningful than F_n.). In part this finds some confirmation, as n = 5 corresponds to Pure Love, but we don't know what other such numbers may mean.

More on circular causation between the higher spaces:
    Draft article Algebra and Pnapsychism from page 17
    Lithuanian video Proto Gardeles from 11:05 min
    Book in Russian Kak Ustroen Mir from page 111
    Russian video – click 9. "Reshiotki Razuma", from 10:30 min