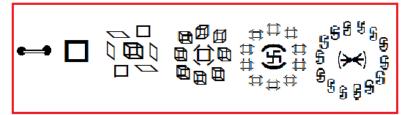
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VEDIC MATHEMATICS



MODERN MATHEMATICS

SATHAPATYA MEASURING ROD



(HYPER CUBES 1 TO 6)

Consolidated Steps of learning and teaching of Vedic mathematics, Science & Technology

STEP – 12 Dimensional synthesis and Domain splits spectrums

- Twelfth learning and teaching step of Vedic mathematics, Science & Technology is learn about the dimensional synthesis and domain split spectrum
- 2. The dimensional synthesis of dimension of same order sequentially leads us to values array as under:
 - i. Value of single dimension of order n is 'n'.
 - ii. Value of pair of dimensions of order n is (n, n) = n + 2.
 - iii. Value of triple dimensions of order n is (n, n, n) = [(n, n), n]= $(n + 2) + n - 2 \times (n - 2)$ = 6
 - iv. Value of quadruple dimensions of order n is (n, n, n, n) = [(n, n, n), n]

$$= 6 + n - 3 (n - 2)$$

= $12 - 2n$

- v. Value of 'r' dimensions of order n is = Value of (r-1) dimensions of order n + n - (r-1) (n-2)
- 3. For n = 1, values of synthesis of dimensions of order 1 comes to be:

(1, 3, 6, 10, 15, 21, 28, ---)

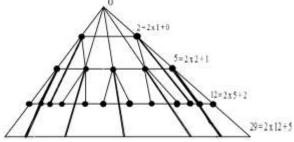
- 4. For n = 2, values of synthesis of dimensions of order 2 comes to be:
- (2, 4, 6, 8, 10, 12, 14, ---)
- 5. For n = 3, values of synthesis of dimensions of order 3 comes to be:

(3, 5, 6, 6, 5, 3, 0, ---)

6. For n = 4, values of synthesis of dimensions of order 4 comes to be: (4, 6, 6, 4, 0, ---)

- 7. For n = 5, values of synthesis of dimensions of order 5 comes to be: (5, 7, 6, 2, -5, ---)
- 8. For n = 6, values of synthesis of dimensions of order 6 comes to be: (6, 8, 6, 0, 10, ---)
- 9. For n = 7, values of synthesis of dimensions of order 7 comes to be: (7, 9, 6, -2, -15, ---)
- 10. For n = 0, values of synthesis of dimensions of order 0 comes to be: (0, 2, 6, 12, 20, 27, 35, ---)
- 11. For n = -1, values of synthesis of dimensions of order (-1) comes to be: (-1, 1, 6, 14, 25, 33, 42, ----)
- 12. For n = -2, values of synthesis of dimensions of order (-2) comes to be: (-2, 0, 6, 16, 30, 39, 49, ----)
- 13. For n = -3, values of synthesis of dimensions of order (-3) comes to be: (-3, -1, 6, 18, 35, 45, 56, ----)
- 14. For n = -4, values of synthesis of dimensions of order (-4) comes to be: (-4, -2, 6, 20, 40, 51, 63, ----)
- 15. For n = -5, values of synthesis of dimensions of order (-5) comes to be: (-5, -3, 6, 22, 45, 57, 70, ----)
- 16. For n = -6, values of synthesis of dimensions of order (-6) comes to be: (-6, -4, 6, 24, 50, 63, 77, ----)
- 17. For n = -7, values of synthesis of dimensions of order (-7) comes to be: (-7, -5, 6, 26, 55, 69, 84, ----)
- 18. The dimensional splits spectrum for order n sequentially leads to array of dimensional axes set ups as under:
- (i) Position at the initial stage is of single dimension order 'n'
- (ii) Position at the first split stage for dimension order n would be a pair of dimensions of order (n 2) and also simultaneously there would be a release of dimension of order (n 4) being the dimension of dimension of order n.

- (iii)Position at the second split stage for pair of dimensions of order (n 2) would be that there would be two pairs of dimensions of order (n 4).
 - At this stage, also would be available the above dimension of dimension release of order (n-4) and thereby there would be an availability of spectrum of five dimensions of order (n-4).
 - Further there also would be a release of a pair of dimensions of dimensions of order (n-6).
- (iv) At third stage of split there would be available five pairs of dimensions of order (n 6) which together with above release of a pair of dimensions of dimensions of order (n 6) shall be making out a spectrum of array of as many as twelve dimensions of order (n 6). In addition there would be array of five dimensions of dimensions of order (n 8).
- (v) Further at next stage of split spectrum there would be $2 \times 12 + 5 = 29$ dimension array of order (n 8). In addition there would be an array of 12 dimensions of dimensions of order (n 10).
- (vi)A step ahead, at next stage of split spectrum there would be 2 x 29 + 12 = 70 dimensions array of order (n 10). In addition there would be an array of 29 dimensions of dimensions of order 29.



- 19. In general the array of split spectrum dimensions would be of values
- (i) 1=1,

- (ii) $1 \times 2 + 0 = 2$,
- (iii)2 x 2 + 1=5,
- $(iv)2 \times 5 + 2=12,$
- (v) $2 \times 12 + 5 = 29$,
- $(vi)2 \times 29 + 12 = 70,$
- (vii) $2 \times 70 + 29 = 169$,
- (viii)2 x 169 + 70 = 408,
- $(ix)2 \times 408 + 169 = 985, ---$
- 20. One may have a pause here and take note that the value of split spectrum at any stage is double of the value at previous stage plus value at previous of the previous stage.
- 21. One shall sit comfortably and have a fresh visit to the split spectrum of dimensions array values.
- (1, 2, 5, 12, 29, 70, 169, 408, 985, ---)
- 22. One shall further have a fresh visit to the following split stage wise emergence of orders and numbers of dimensions.

Sn.	I	II	III	IV	V	VI	-
Order	n	n-2	n-4	n-6	n-8	n-10	-
Number	1	2	5	12	29	70	-
Of dim.							

- 23. It would be a blissful exercise to have a visit to split spectrum for different values of 'n'.
- 24. For n = 9, the split spectrum tabulation would be as under :-

tabalation would be as affect.								
Sn.	I	II	III	IV	V	VI	1	
Order	9	7	5	3	1	-1	1	
Number	1	2	5	12	29	70	-	
Of dim.								

25. For n = 10, the tabulation comes to be as under:

Sn.	Ι	II	III	IV	V	VI	-
Order	10	8	6	4	2	0	1
Number	1	2	5	12	29	70	1
Of dim.							

- 26. Here it would be relevant to note that the linear dimensional equivalence for 9-space in the role of dimension comes to be: (9 x 7 x 5 x 3 x 1) = 945 and that the split spectrum value 985 = 945 + 40 while 40 = 4 x 10 which is parallel to the 40 coordinates fixation of creative boundary of 10 components of transcendental (5-space) domain.
- 27. Likewise would be relevant to note that the linear dimensional equivalence for 10-space in the role of dimension comes to be: (10 x 8 x 6 x 4 x 2) = 3840 and that the split spectrum value 3840 = 2378 + 1462 while 1462 = 731 + 731 which is parallel to a pair of Divya Ganga flow streams (7, 3, 1) along the artifices format of soul syllable Om of four components with Bindu Sarovar as the source reservoir

