HEBDOMEKONTANY PITCHES, ©1989 by Erv Wilson

(1 ÷ 15)

note	Function	Pitches	1 2 3 4 5 6 7 8 9 10 Scalation tuner code
+C	3·5·9·15	· 270	- 2 3 - - - - 8 9 -
″δ	3·7·13·15	273	- - - 4 5 - - 8 9 -
	5·7·9·13	"	
ˋδ	3·7·9·11	277.2	1 - - - 5 6 - 8 9 -
δ	1·5·7·15	· 280	1 - - - - - 7 8 9 -
″D	1·11·13·15	286	1 2 - - - 6 7 8 9 -
	3·5·11·13	"	
+δ	1·3·5·9	· 288	1 - 3 4 - 6 7 8 9 -
ˋD₁	1·3·7·13	291.2	1 2 3 4 5 6 7 8 9 -
ˋD₂	5·9·13·15	292.5	1 - 3 - - - - - - 10
D	3·9·11·15	· 297	1 - 3 4 5 - - - 10
‴€	7·9·11·13	300.3	1 - 3 4 - 6 - - 10
ˋ€₁	1·7·11·15	· 308	- 2 - - 5 - 7 - - 10
	3·5·7·11	"	
ˋ€₂	1·3·13·15	312	1 - 3 - - 6 7 - - 10
	1·5·9·13	"	
€₁	5·7·9·15	· 315	1 2 - - 5 6 7 - - 10
€₂	1·3·9·11	316.8	1 2 - 4 5 6 7 - - 10
‴E	9·11·13·15	321.75	1 - - - 5 - - 8 - 10
ˋE	3·7·9·13	327.6	1 - - 4 - 6 - 8 - 10
*E	3·5·11·15	· 330	1 2 - - 5 6 - 8 - 10
‴F	5·7·11·13	333.666..	- 2 - - - - 7 8 - 10
+E	1·3·7·15	· 336	- - 3 4 - - 7 8 - 10
	1·5·7·9	"	
″E	1·9·11·13	343.2	1 2 3 - - 6 7 8 - 10
ˋF₁	7·9·11·15	· 346.5	- - 3 - 5 6 7 8 - 10
ˋF₂	3·9·13·15	351	- - 3 - - - - - 9 10
F	1·3·5·11	· 352	- - - 4 - - - - 9 10
‴Y	5·11·13·15	357.5	- - 3 4 5 - - - 9 10
+F	1·5·9·15	· 360	- - 3 - - 6 - - 9 10
″Y	1·7·13·15	364	- 2 - - 5 6 - - 9 10
	3·5·7·13	"	
ˋY₁	1·7·9·11	369.6	1 - 3 - - - 7 - 9 10
ˋY₂	1·3·9·13	374.4	- - 3 - 5 - 7 - 9 10
Y	3·7·9·15	· 378	- - - - - 6 7 - 9 10

+D 1·5·7

″€ 3·7·9·13·15

+€ 1·5·15

example: $\frac{7\times9\times11\times13}{15\ (\text{Key})} = 600.6$ (300.3 ‴€)

Hebdomekontany = The 70 pitches derived by multiplying the 70 combinations of 4-out-of-8 harmonic elements together. (The product is divided by 15 to place it in a useful chosen Key.)

HEBDOMEKONTANY PITCHES

(1 ÷ 15)

SH 2

note	function	Pitch	1 2 3 4 5 6 7 8 9 10 scalatron tuner code
𝄎G	1·5·11·13	381.333..	- 2 - 4 - 6 7 - 9 10
↑G₁	5·7·11·15	· 385	1 - 3 - 5 6 7 - 9 10
↑G₂	3·5·13·15	390	- - 3 - - - - 8 9 10
G	1·9·11·15	· 396	1 - 3 - 5 - - 8 9 10
	3·5·9·11	〃	
𝄎α	3·7·11·13	400.4	- 2 - - - 6 - 8 9 10
+G	1·3·7·9	403.2	- 2 - 4 - 6 - 8 9 10
𝄎α	7·9·13·15	409.5	1 2 - 4 5 6 - 8 9 10
↑α₁	1·5·7·11	· 410.666..	- 2 3 4 5 6 - 8 9 10
↑α₂	1·3·5·13	416	- - 3 4 - - 7 8 9 10
α	3·5·7·15	· 420	- 2 3 - 5 - 7 8 9 10
𝄎A	3·11·13·15	429	- - 3 4 - 6 7 8 9 10
	5·9·11·13	〃	
+α	1·3·9·15	· 432	- - 3 - 5 6 7 8 9 10
↑A	1·7·9·13	436.8	1 2 3 4 5 6 7 8 9 10
A	1·5·11·15	· 440	1 - 3 4 - - - - - -
+A	1·3·5·7	· 448	1 - - - 5 6 - - - -
𝄎β₁	5·7·13·15	455	- - - - 5 · 7 - - ·
𝄎β₂	1·3·11·13	457.6	1 2 - 4 5 - 7 - - -
↑β₁	3·7·11·15	· 462	- 2 3 4 - 6 7 - - -
	5·7·9·11	〃	
↑β₂	1·9·13·15	468	1 2 3 - - - - 8 - -
	3·5·9·13	〃	
+β	1·3·5·15	· 480	1 2 3 - 5 6 - 8 - -
↑B	1·5·7·13	485.333..	1 2 - 4 - - 7 8 - -
B₁	1·3·7·11	492.8	1 2 3 - - 6 7 8 - -
B₂	5·9·11·15	· 495	1 2 3 4 - 6 7 8 - -
𝄎C	7·11·13·15	500.5	1 2 - - - - - - 9 -
+B	1·7·9·15	· 504	1 2 3 4 - - - - 9 -
	3·5·7·9	〃	
𝄎C	3·9·11·13	514.8	1 - 3 - 5 6 - - 9 -
↑C	1·5·13·15	⊙ 520	- 2 3 - - - 7 - 9 -
C	1·3·11·15	C · 528	- - - - - - 6 7 - 9 -
	1·5·9·11	〃	
𝄎δ	1·7·11·13	533.666..	- 2 - - 5 6 7 - 9 -

𝄎β	3·7·9·11·13
β	1·5·11
𝄎B	3·9·11·13·15

"Quert"
Keyboard program
© 1989 by Erv Wilson
For 1,3,5,7,9,11,13,15
Product combination set
(Hebdomekontany)

+67 (1·3·5·7·9·11·13·15) 41.
+66 (5·7·9·11·13·15) 16.
+65 (3·5·7·11·13·15) 34.
+64 (1·5·7·11·13·15) 9.
+63 (3·7·9·11·13·15) 27.
+62 (3·5·7·9·11·13) 2.
+61 (3·7·11·13·15) 20.
+60 7·11·13·15 38.
+59 5·7·11·13 13.
+58 (3·7·9·11·13) 31.
+57 7·9·11·13 6.
+56 3·7·11·13 24.
+55 1·7·11·13 42.
+54 5·11·13·15 17.
+53 (3·9·11·13·15) 35.
+52 9·11·13·15 10.
+51 (3·11·13·15) (5·9·11·13) 28.
+50 (1·11·13·15) (3·5·11·13) 3.
+49 1·5·11·13 21.
+48 3·9·11·13 39.
+47 1·9·11·13 14.
+46 1·3·11·13 32.
+45 (3·7·9·13·15) 7.
+44 7·9·13·15 25.
+43 (3·7·13·15) (5·7·9·13) 0/43
+42 (1·7·13·15) (3·5·7·13) 18.
+41 1·5·7·13 36.
+40 3·7·9·13 11.
+39 1·7·9·13 29.
+38 1·3·7·13 4.
+37 3·5·13·15 22.
+36 1·5·13·15 40.
+35 3·9·13·15 7·9·11·15 15.
+34 (1·9·13·15) (3·5·9·13) (3·7·11·15) (5·7·9·11) 33.
+33 (1·5·9·13) (1·3·13·15) (1·7·11·15) (3·5·7·11) 8.
+32 1·3·5·13 1·5·7·11 26.
+31 3·7·9·11 1.
+30 1·3·9·13 1·7·9·11 19.
+29 1·3·7·11 5·9·11·15 37. B
+28 3·5·11·15 E 12.
+27 A440 1·5·11·15 (13) A 30.
+26 3·9·11·15 D 5.
+25 (1·9·11·15) (3·5·9·11) G 23.
+24 C264 (1·3·11·15) (1·5·9·11) 41. C
+23 1·3·5·11 F 16.
+22 (1·5·11) B (beta) 34.
+21 1·3·9·11 5·7·9·15 ε (epsilon) 9.
+20 3·5·7·15 α (alpha) 27.
+19 1·5·7·15 δ (delta) 2.
+18 3·7·9·15 γ (gamma) (11) 20.
+17 (1·7·9·15) (3·5·7·9) 38.
+16 (1·3·7·15) (1·5·7·9) 13.
+15 1·3·5·7 31.
+14 (1·5·7) etc 6.
+13 1·3·7·9 24.
+12 3·5·9·15 Ct 42.
+11 1·5·9·15 17.
+10 1·3·5·15 (7) 35.
+9 (1·5·15) 10.
+8 1·3·9·15 28.
+7 1·3·5·9 3.
+6 (1·5·9) 21.
+5 512 CPS (15) 39.
+4 (5) 14.
+3 (1·3·9) 32.
+2 (9) 7.
+1 (3) 25.
0 273.066.. (1) 0/43 43/0

linear position
Template
modulus
+

"Roebuck" Keyboard Program

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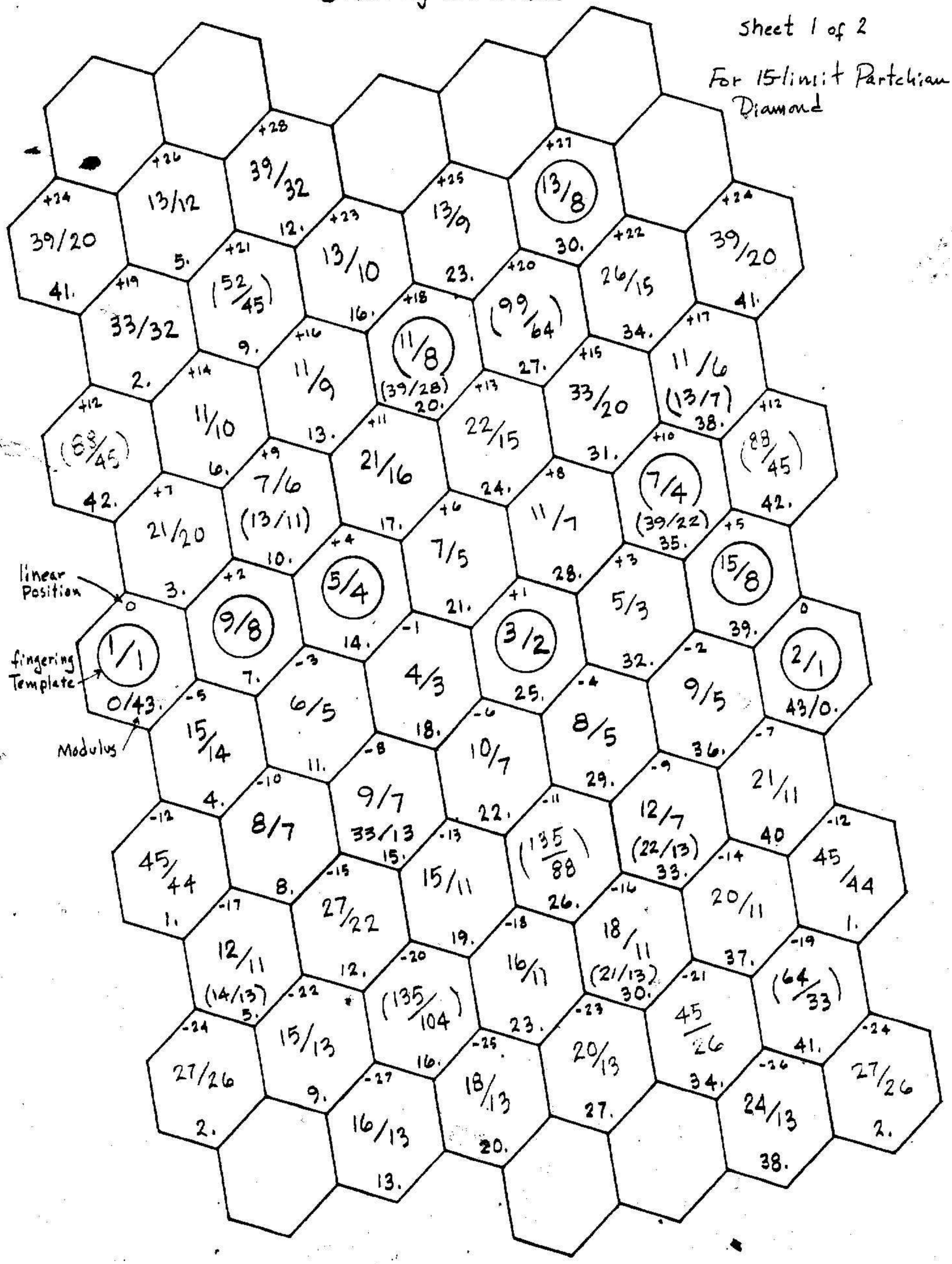
For 15-limit Partchian Diamond



Hebdomekontany Notes

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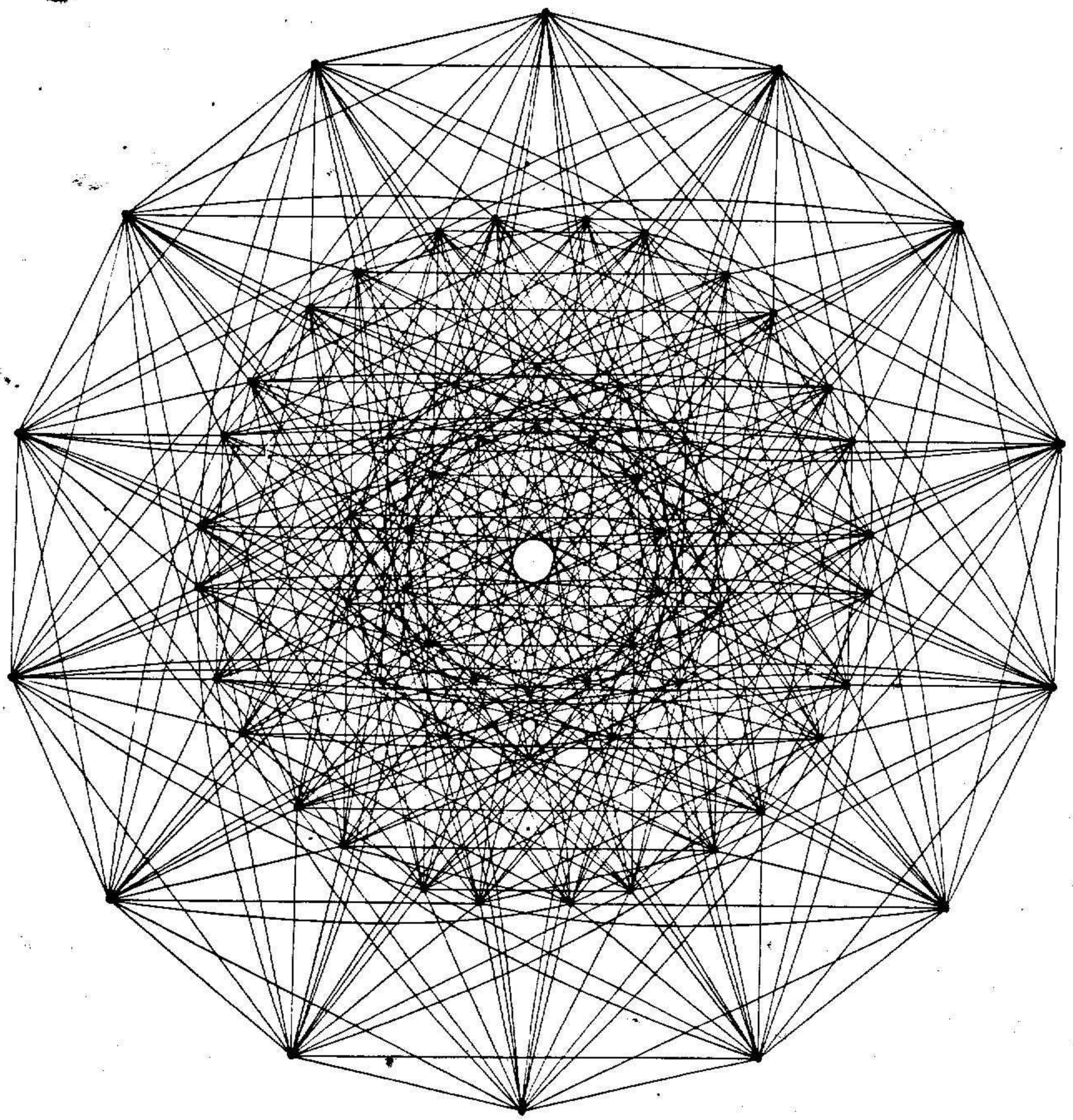

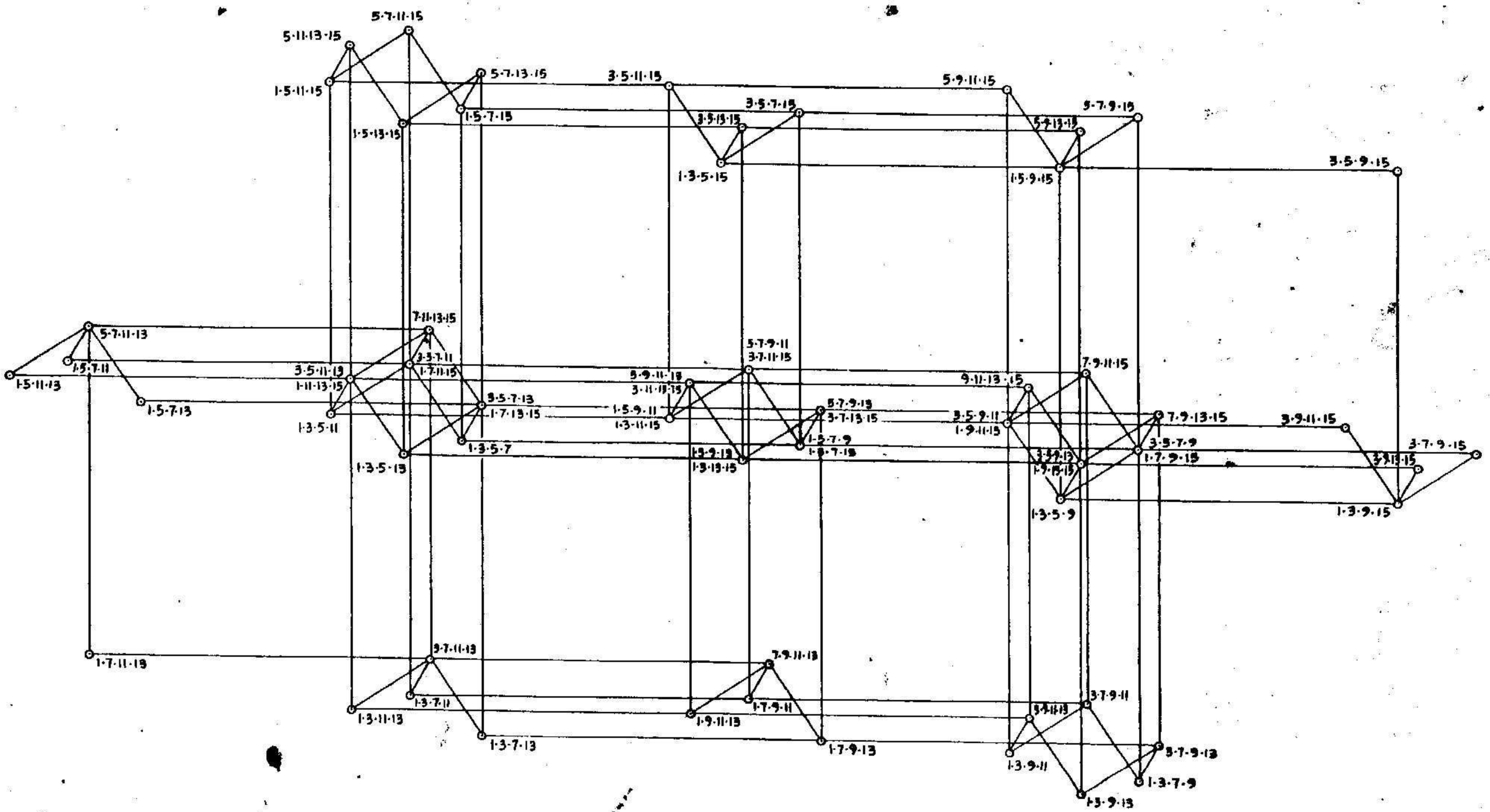

1·3·5·7·9·11·13·15
Hebdomekontany
(drawn circa 1967-68)

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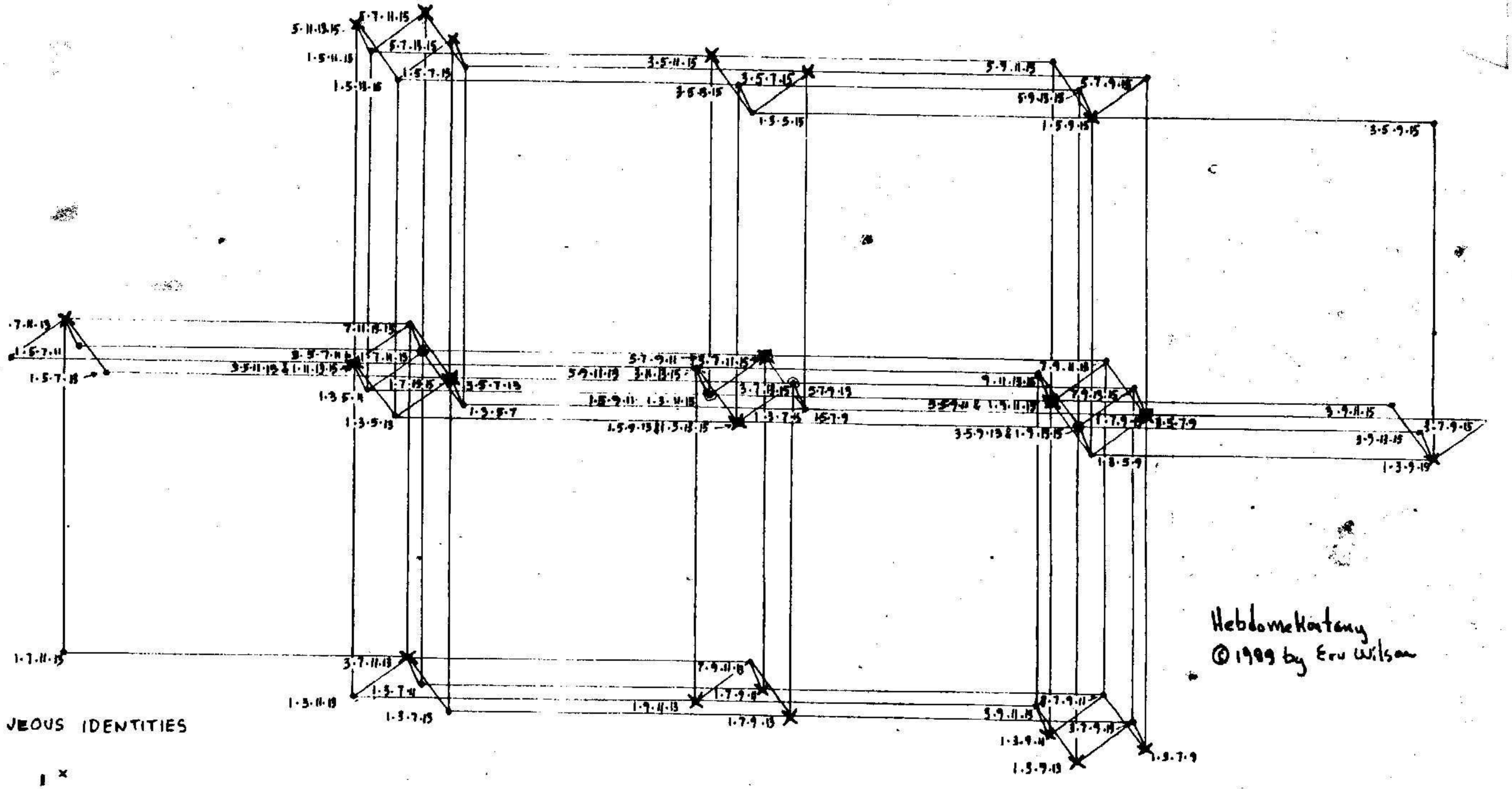

JEOUS IDENTITIES

Hebdomekontany
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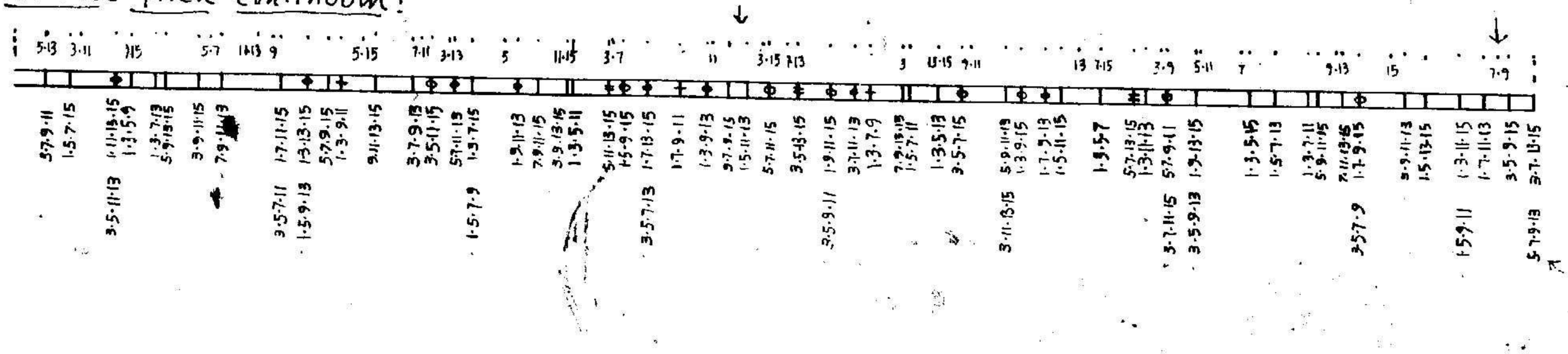
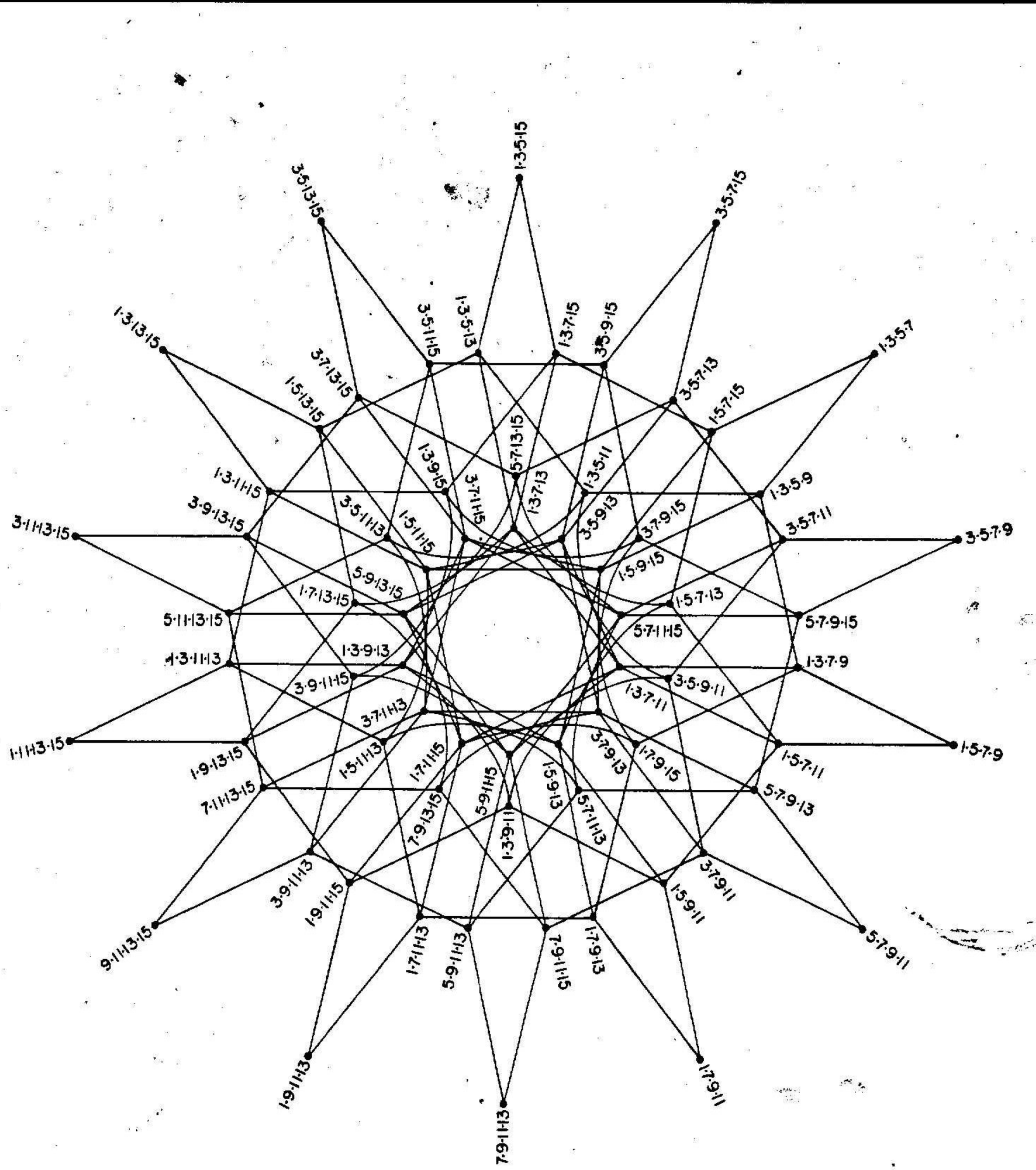
Relative pitch continuum:





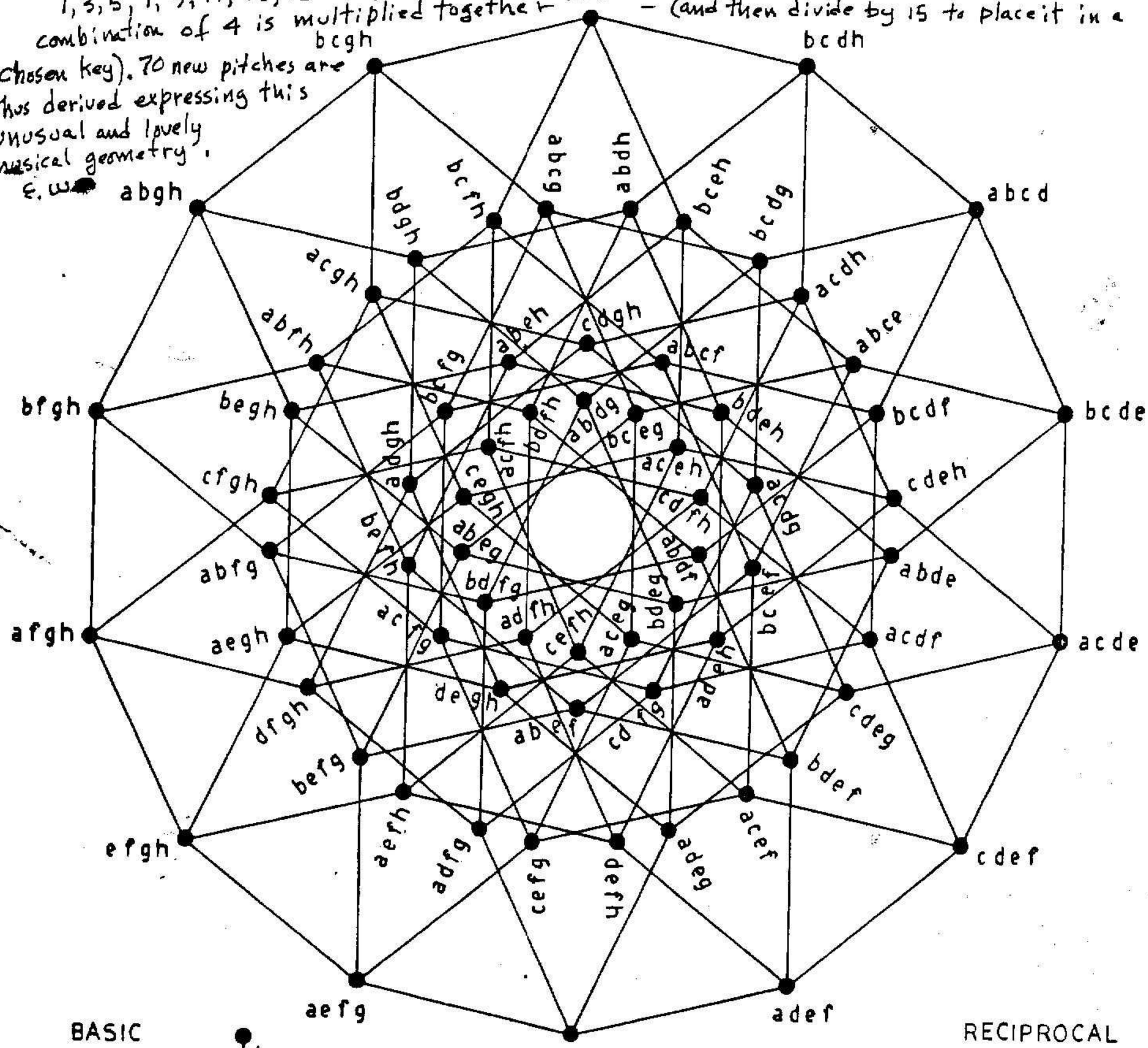
Geometric LaHice

1-3-5-7-9-11-13-15 HEBDOMEKONTANY

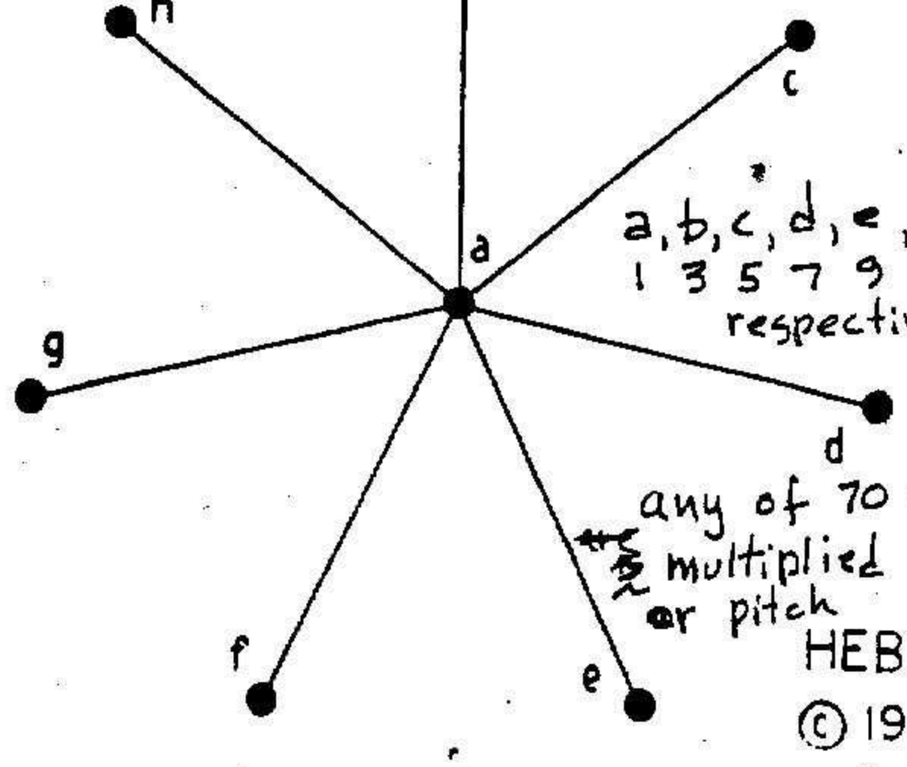
ISSUED BY ERV WILSON, 1969

This is a geometric expression of one of the "hyper-shperical" patterns occurring in the set of 70 combinations of 4-out-of-8. 1, 3, 5, 7, 9, 11, 13, 15 refer to members of the harmonic series. Each combination of 4 is multiplied together - (and then divide by 15 to place it in a chosen key). 70 new pitches are thus derived expressing this unusual and lovely musical geometry.

E. W.

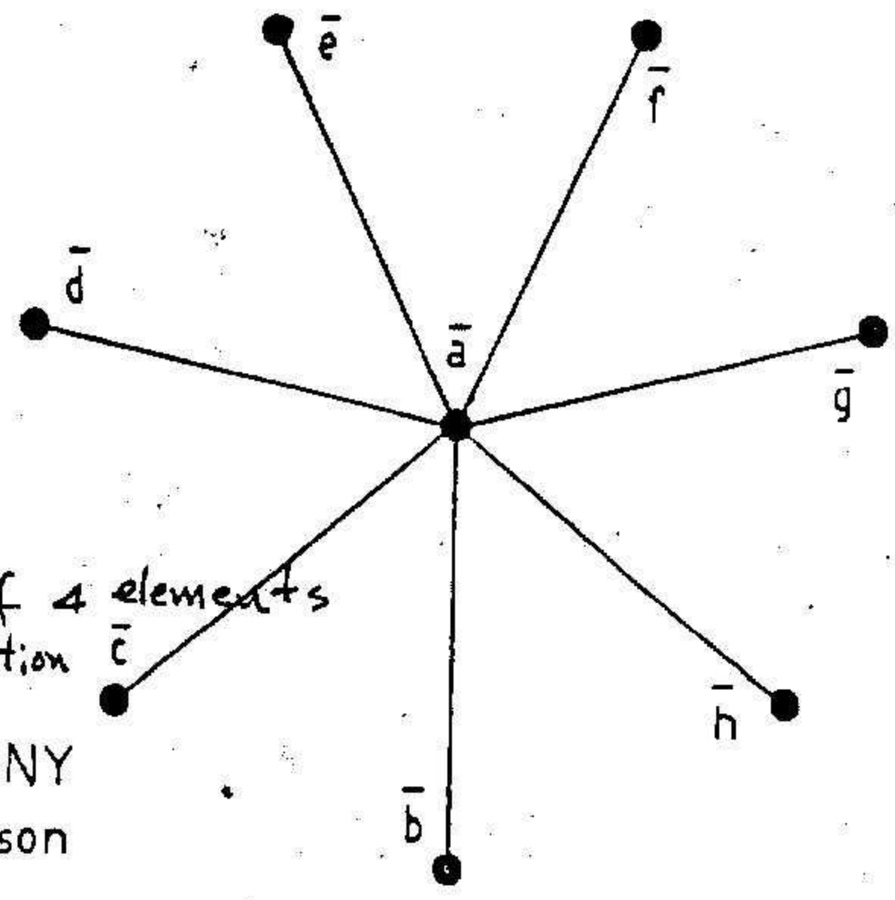


BASIC OGDOAD



a, b, c, d, e, f, g, h =
1 3 5 7 9 11 13 15
respectively

RECIPROCAL



any of 70 combinations of 4 elements multiplied to get the function or pitch

HEBDOMEKONTANY

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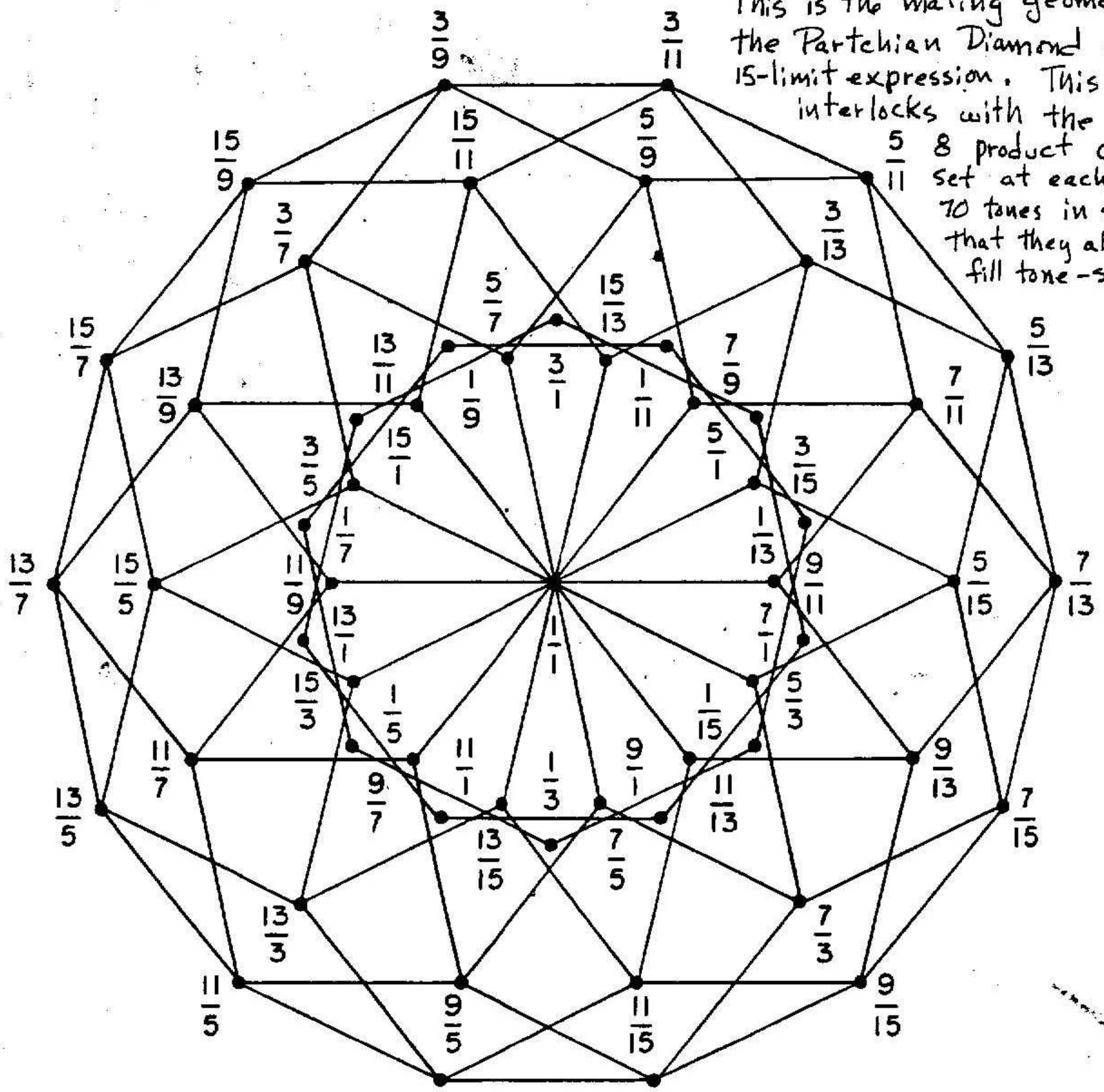
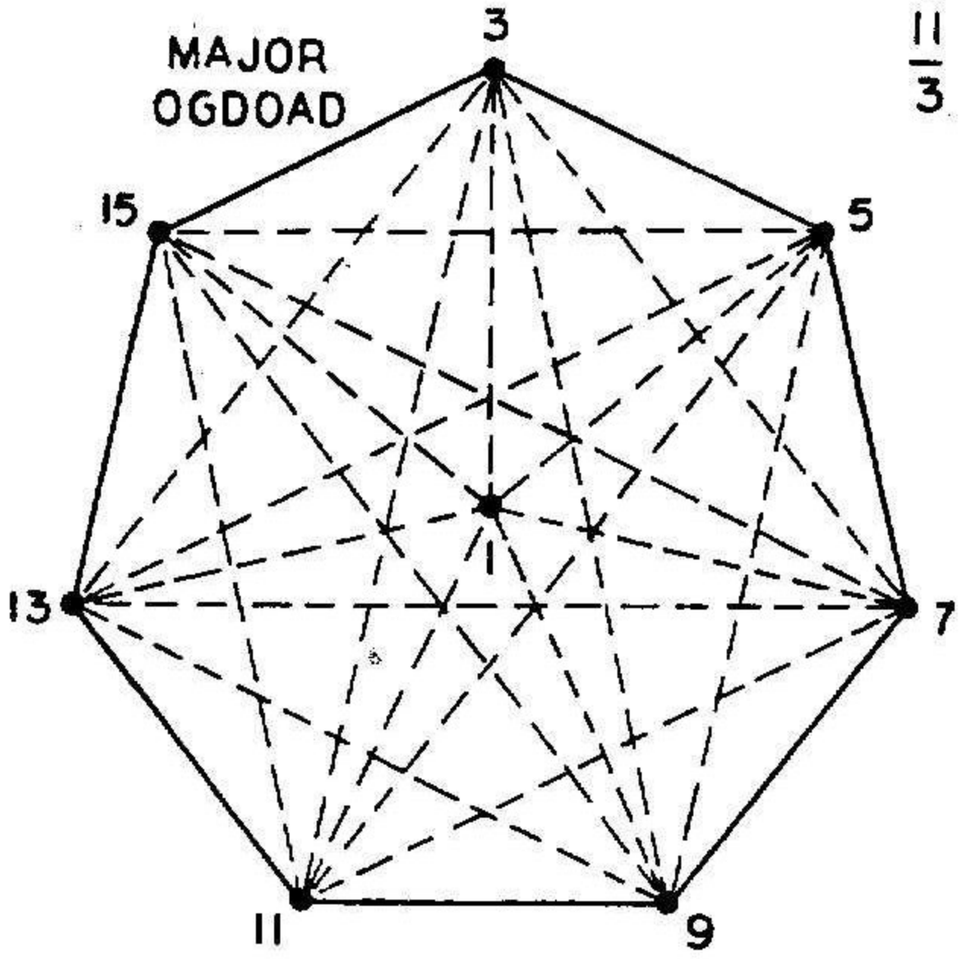
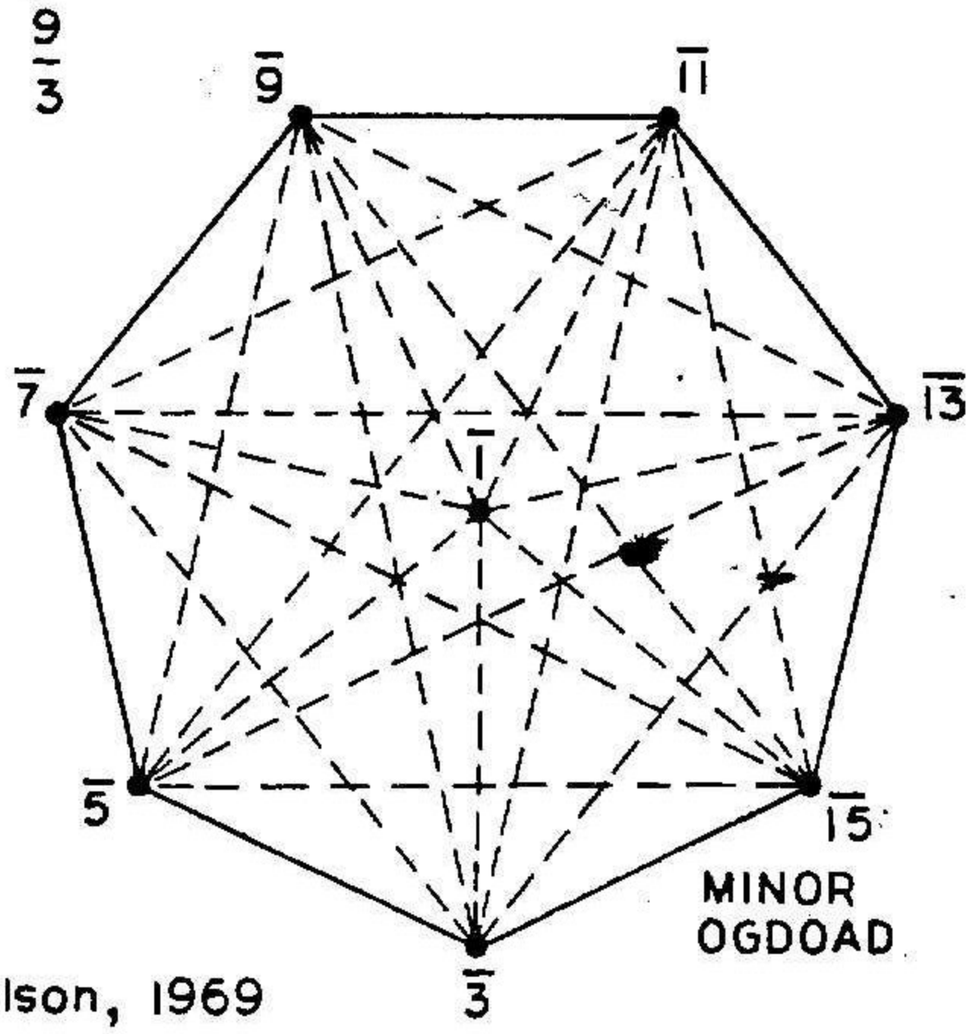
1-3-5-7-9-11-13-15 DIAMOND

This is the mating geometry for the Partchian Diamond at its 15-limit expression. This geometry interlocks with the 4-out-of-8 product combination set at each of its 70 tones in such a way that they alternately fill tone-space!

E. W.







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