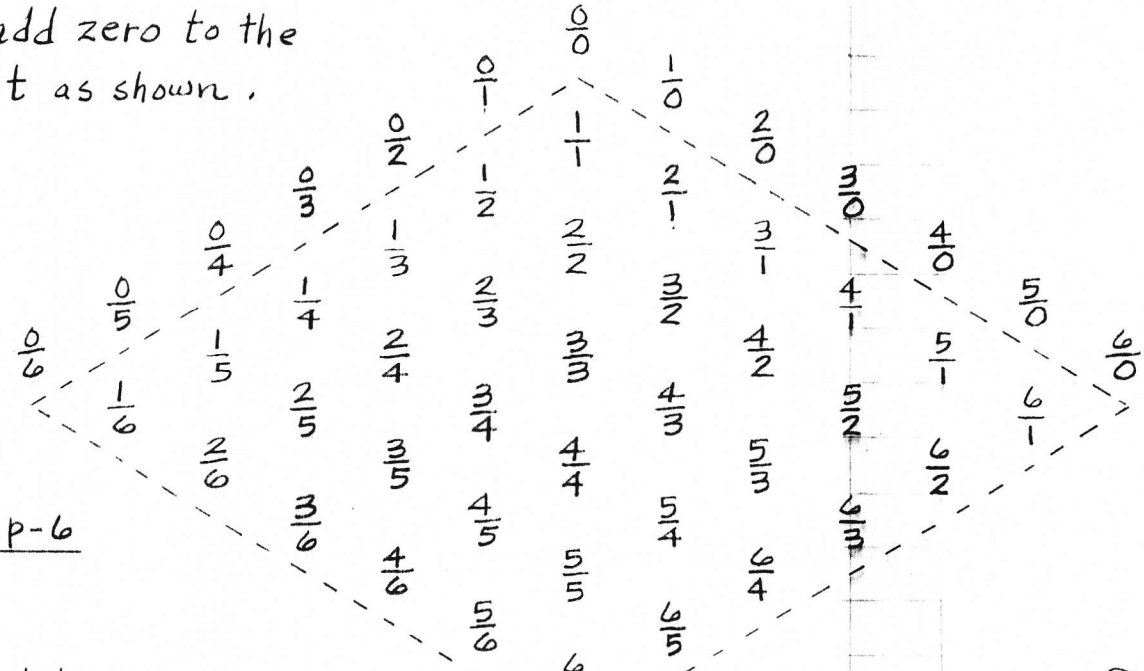
This is How to Convert
The Lambdoma to the Farey Series

Step 1; add zero to the master set as shown.

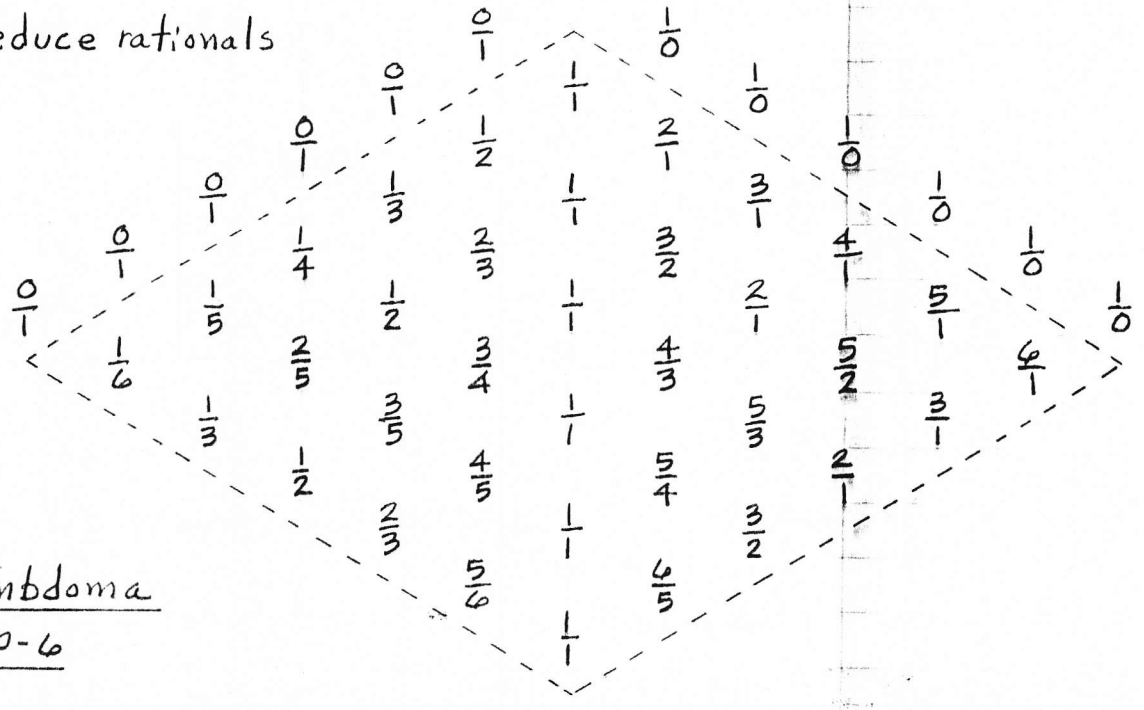


Lambdoma Cap-6

Step 3; sort terms per Magnitude $\frac{a}{b}$ of Farey Series of Order 6; epimoria $\frac{b \times c}{a \times d}$

Magnitude $\frac{a}{b}$	Farey Series of Order 6	epimoria $\frac{b \times c}{a \times d}$
(zero)	$\frac{0}{1}$	$\frac{1}{0}$
.17	$\frac{1}{6}$	$\frac{6}{5}$
.20	$\frac{1}{5}$	$\frac{5}{4}$
.25	$\frac{1}{4}$	$\frac{4}{3}$
.33	$\frac{1}{3}$	$\frac{6}{5}$
.40	$\frac{2}{5}$	$\frac{5}{4}$
.50	$\frac{1}{2}$	$\frac{6}{5}$
.66	$\frac{3}{5}$	$\frac{10}{9}$
.67	$\frac{2}{3}$	$\frac{9}{8}$
.75	$\frac{3}{4}$	$\frac{16}{15}$
.80	$\frac{4}{5}$	$\frac{25}{24}$
.83	$\frac{5}{6}$	$\frac{6}{5}$
1.00	$\frac{1}{1}$	$\frac{6}{5}$
1.20	$\frac{6}{5}$	$\frac{25}{24}$
1.25	$\frac{5}{4}$	$\frac{16}{15}$
1.33	$\frac{4}{3}$	$\frac{9}{8}$
1.50	$\frac{3}{2}$	$\frac{10}{9}$
1.67	$\frac{5}{3}$	$\frac{6}{5}$
2.00	$\frac{2}{1}$	$\frac{5}{4}$
2.50	$\frac{5}{2}$	$\frac{6}{5}$
3.00	$\frac{3}{1}$	$\frac{4}{3}$
4.00	$\frac{4}{1}$	$\frac{5}{4}$
5.00	$\frac{5}{1}$	$\frac{6}{5}$
6.00	$\frac{6}{1}$	$\frac{1}{0}$
(infinity)	$\frac{1}{0}$	

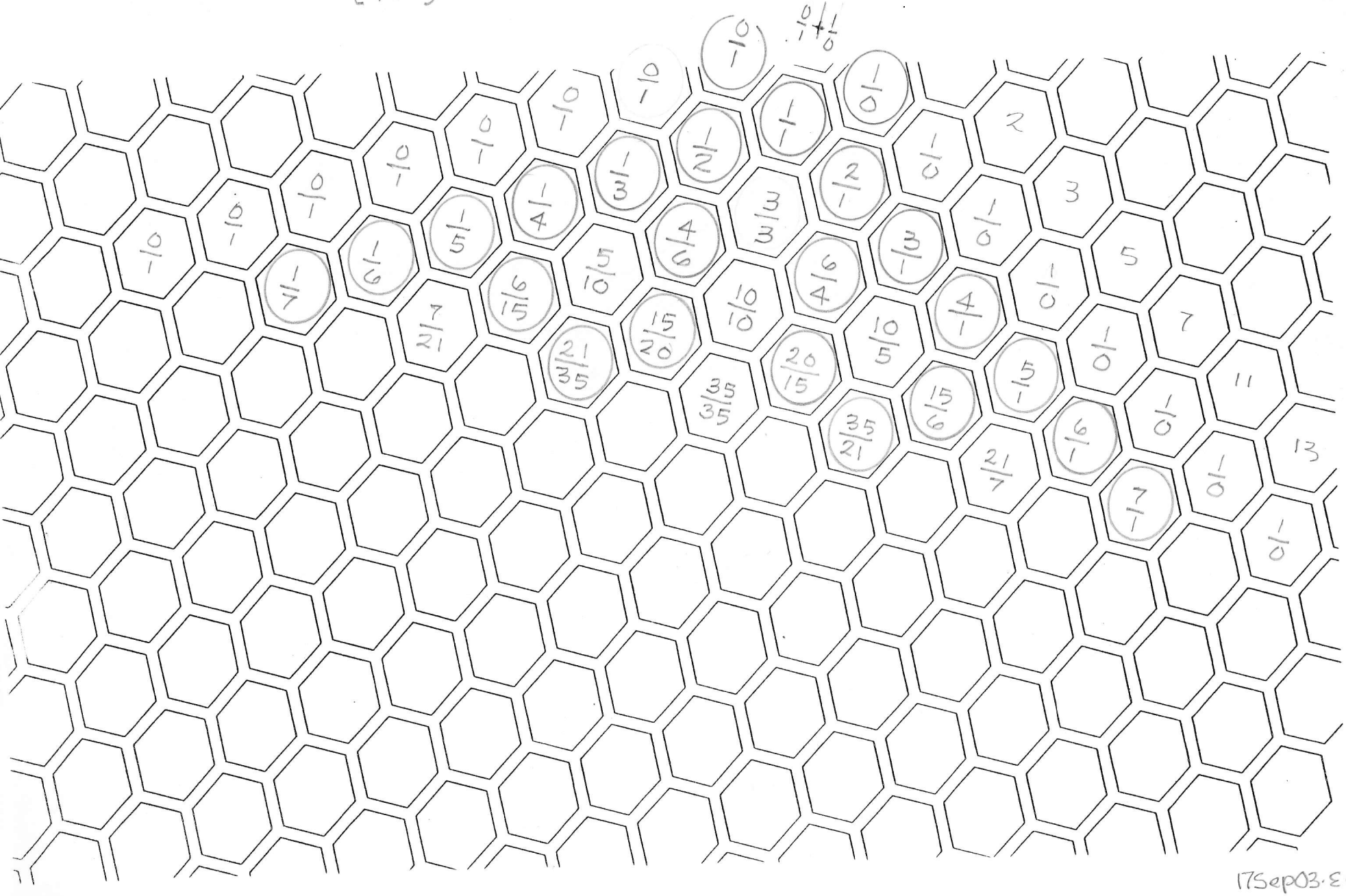
Step 2; reduce rationals as shown.



Lambdoma cap-6

The Farey Series (Lambdoma) is imbedded in the Peirce Series (Scale-Tree).

Lambda $\{\frac{0}{1}|\frac{1}{0}\}$



17Sep03·EW

LAMBDA SERIES, thru SUMS-CAP 8

17NOV99·EW

(a+b does not exceed sums-cap.)

$(\frac{a}{b})$ Sums-Cap

$\frac{0}{1}$ $\frac{1}{0}$ — 1

$\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{1}$ $\frac{1}{0}$ — 2

$\frac{1}{0}$ $\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{2}$ $\frac{1}{1}$ $\frac{2}{1}$ $\frac{1}{0}$ — 3

$\frac{1}{0}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{1}$ $\frac{2}{1}$ $\frac{3}{1}$ $\frac{1}{0}$ — 4

$\frac{1}{0}$ $\frac{3}{2}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{3}{2}$ $\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{1}{1}$ $\frac{3}{2}$ $\frac{2}{1}$ $\frac{3}{1}$ $\frac{4}{1}$ $\frac{1}{0}$ — 5

$\frac{1}{0}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{0}{1}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{1}{1}$ $\frac{3}{2}$ $\frac{2}{1}$ $\frac{3}{1}$ $\frac{4}{1}$ $\frac{5}{1}$ $\frac{1}{0}$ — 6

$\frac{1}{0}$ $\frac{5}{4}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{4}{3}$ $\frac{5}{4}$ $\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{2}{5}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{1}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{2}{1}$ $\frac{5}{2}$ $\frac{3}{1}$ $\frac{4}{1}$ $\frac{5}{1}$ $\frac{6}{1}$ $\frac{1}{0}$ — 7

$\frac{1}{0}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{4}{3}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{4}{3}$ $\frac{9}{8}$ $\frac{4}{3}$ $\frac{4}{3}$ $\frac{9}{8}$ $\frac{4}{3}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{4}{3}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{1}{0}$ (epimoria)

$\frac{0}{1}$ $\frac{1}{7}$ $\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{2}{5}$ $\frac{1}{2}$ $\frac{3}{5}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{1}$ $\frac{4}{3}$ $\frac{3}{2}$ $\frac{5}{3}$ $\frac{2}{1}$ $\frac{5}{2}$ $\frac{3}{1}$ $\frac{4}{1}$ $\frac{5}{1}$ $\frac{6}{1}$ $\frac{7}{1}$ $\frac{1}{0}$ — 8

$\frac{1}{0}$ $\frac{7}{6}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{4}{3}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{10}{9}$ $\frac{9}{8}$ $\frac{4}{3}$ $\frac{4}{3}$ $\frac{9}{8}$ $\frac{10}{9}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{4}{3}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{7}{6}$ $\frac{1}{0}$ (epimoria)

Lambdoma of Diophantine Couplet $\frac{1}{2}\ \frac{1}{1}, \left(\frac{a}{b}\ \frac{c}{d}\right)\ b\cdot c - a\cdot d = 1$

$\frac{0}{0}$	$\frac{1}{1}$	$\frac{2}{2}$	$\frac{3}{3}$	$\frac{4}{4}$	$\frac{5}{5}$	$\frac{6}{6}$	$\frac{7}{7}$	$\frac{8}{8}$	$\frac{9}{9}$	$\frac{10}{10}$	$\frac{11}{11}$
$\frac{1}{2}$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$	$\frac{6}{7}$	$\frac{7}{8}$	$\frac{8}{9}$	$\frac{9}{10}$	$\frac{10}{11}$	$\frac{11}{12}$	$\frac{12}{13}$
$\frac{2}{4}$	$\frac{3}{5}$	$\frac{4}{6}$	$\frac{5}{7}$	$\frac{6}{8}$	$\frac{7}{9}$	$\frac{8}{10}$	$\frac{9}{11}$	$\frac{10}{12}$	$\frac{11}{13}$	$\frac{12}{14}$	$\frac{13}{15}$
$\frac{3}{6}$	$\frac{4}{7}$	$\frac{5}{8}$	$\frac{6}{9}$	$\frac{7}{10}$	$\frac{8}{11}$	$\frac{9}{12}$	$\frac{10}{13}$	$\frac{11}{14}$	$\frac{12}{15}$	$\frac{13}{16}$	$\frac{14}{17}$
$\frac{4}{8}$	$\frac{5}{9}$	$\frac{6}{10}$	$\frac{7}{11}$	$\frac{8}{12}$	$\frac{9}{13}$	$\frac{10}{14}$	$\frac{11}{15}$	$\frac{12}{16}$	$\frac{13}{17}$	$\frac{14}{18}$	$\frac{15}{19}$
$\frac{5}{10}$	$\frac{6}{11}$	$\frac{7}{12}$	$\frac{8}{13}$	$\frac{9}{14}$	$\frac{10}{15}$	$\frac{11}{16}$	$\frac{12}{17}$	$\frac{13}{18}$	$\frac{14}{19}$	$\frac{15}{20}$	$\frac{16}{21}$
$\frac{6}{12}$	$\frac{7}{13}$	$\frac{8}{14}$	$\frac{9}{15}$	$\frac{10}{16}$	$\frac{11}{17}$	$\frac{12}{18}$	$\frac{13}{19}$	$\frac{14}{20}$	$\frac{15}{21}$	$\frac{16}{22}$	$\frac{17}{23}$
$\frac{7}{14}$	$\frac{8}{15}$	$\frac{9}{16}$	$\frac{10}{17}$	$\frac{11}{18}$	$\frac{12}{19}$	$\frac{13}{20}$	$\frac{14}{21}$	$\frac{15}{22}$	$\frac{16}{23}$	$\frac{17}{24}$	$\frac{18}{25}$
$\frac{8}{16}$	$\frac{9}{17}$	$\frac{10}{18}$	$\frac{11}{19}$	$\frac{12}{20}$	$\frac{13}{21}$	$\frac{14}{22}$	$\frac{15}{23}$	$\frac{16}{24}$	$\frac{17}{25}$	$\frac{18}{26}$	$\frac{19}{27}$
$\frac{9}{18}$	$\frac{10}{19}$	$\frac{11}{20}$	$\frac{12}{21}$	$\frac{13}{22}$	$\frac{14}{23}$	$\frac{15}{24}$	$\frac{16}{25}$	$\frac{17}{26}$	$\frac{18}{27}$	$\frac{19}{28}$	$\frac{20}{29}$
$\frac{10}{20}$	$\frac{11}{21}$	$\frac{12}{22}$	$\frac{13}{23}$	$\frac{14}{24}$	$\frac{15}{25}$	$\frac{16}{26}$	$\frac{17}{27}$	$\frac{18}{28}$	$\frac{19}{29}$	$\frac{20}{30}$	$\frac{21}{31}$
$\frac{11}{22}$	$\frac{12}{23}$	$\frac{13}{24}$	$\frac{14}{25}$	$\frac{15}{26}$	$\frac{16}{27}$	$\frac{17}{28}$	$\frac{18}{29}$	$\frac{19}{30}$	$\frac{20}{31}$	$\frac{21}{32}$	$\frac{22}{33}$

The Top-Lambdoma is generated from the Diophantine Couplet $\frac{0}{1}\ \frac{1}{0}\ ;\ \frac{a}{b}\ \frac{c}{d}$ are adjacent and $bc-ad=1$. Each subsequent couplet in the series can generate a Lambdoma sub-species, like shown above. Mediants and Epimoria hold, as does the Co-prime Pattern.

Ref: A Brief History of the Lambdoma, Barbara 1994, XH 16

So-Called Farey Series, extended 0/1 to 1/0 (Full Set of Gear Ratios), and Lamboma by Ervin M. Wilson 1992

11DEC99.EW

This shows the re-seeding of the Lambdoma proper, where $\frac{a}{b}\ \frac{c}{d}$ are consecutive and $b \cdot c - a \cdot d = 1$, with

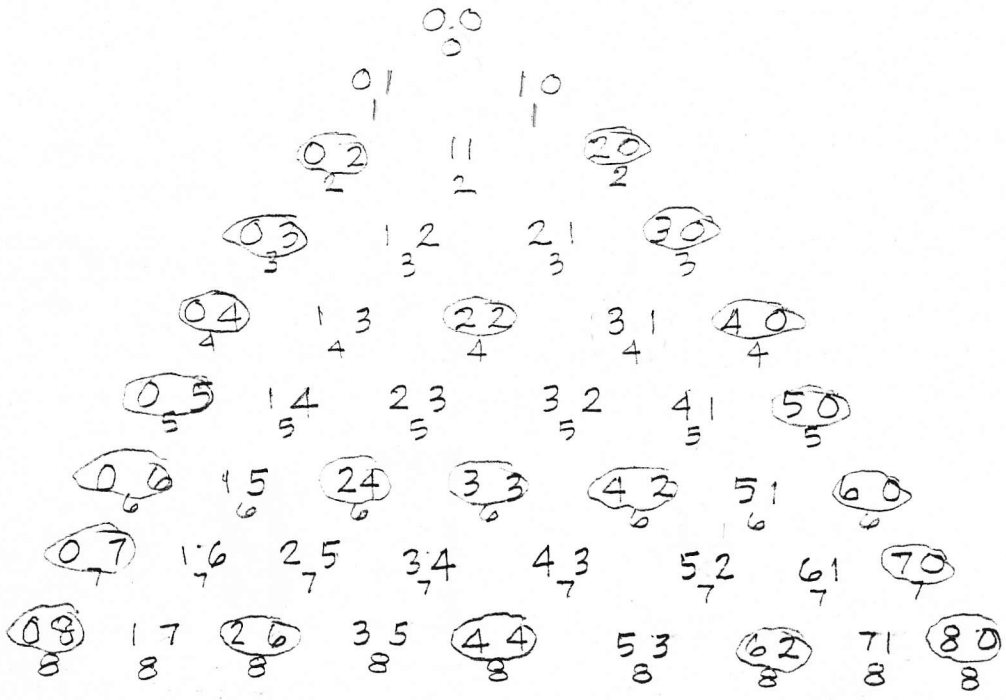
The lambdoma proper is generated from a Diophantine couplet, where $\frac{a}{b}\ \frac{c}{d}$ are adjacent and $bc - ad = 1$, ~~the~~ and the all-embracing ~~master~~ couplet is $\frac{0}{1}\ \frac{1}{0}$. Each couplet ~~resultant~~ ~~in the Top Couplet~~ in the ~~resultant~~ associated Farey series can be be used to ~~seed~~ generate a sub-specie~~s~~fic Lambdoma; the example above shows how this is done. Mediants hold; Epimoria hold. The Co-prime Pattern of irreducible fractions holds.

Refs: A Brief History of the Lambdoma, Barbara Hero 1994, XH 16,1995.

16 OCT99-EW

Wilson

SUMS-CAP 8 LAMBDA

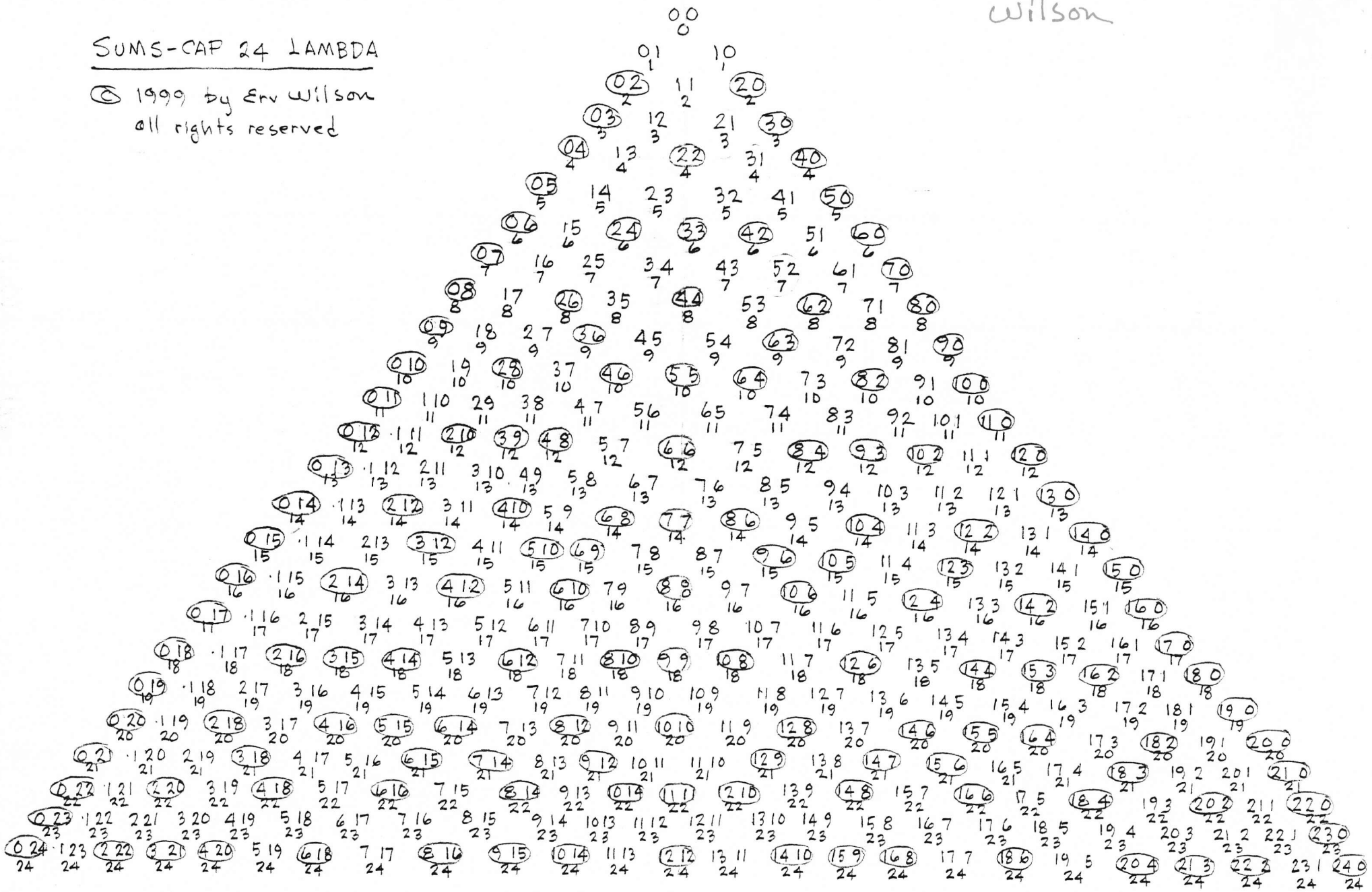


0 1 1 1 1 1 2 1 3 2 3 1 4 3 5 2 5 3 4 5 6 7 1
1 7 6 5 4 3 5 2 5 3 4 1 3 2 3 1 2 1 1 1 1 1 0

$\frac{1}{0}$ $\frac{7}{6}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{4}{3}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{10}{9}$ $\frac{9}{8}$ $\frac{4}{3}$ $\frac{4}{3}$ $\frac{9}{8}$ $\frac{10}{9}$ $\frac{6}{5}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{4}{3}$ $\frac{5}{4}$ $\frac{6}{5}$ $\frac{7}{6}$ $\frac{1}{0}$

wilson

SUMS-CAP 24 LAMBDA



24OCT99-E.W.
sheet 1

90+90+1 = 181

- 1/23 .043	- 2/21 = .095	- 4/19 .210	- 7/17 .411
- 1/22 .045	- 2/19 .105	- 4/17 .235	- 7/16 .437
- 1/21 .047	- 2/17 .117	- 4/15 .266	- 7/15 .466
- 1/20 .050	- 2/15 .133	- 4/13 .307	- 7/13 .538
- 1/19 .052	- 2/13 .153	- 4/11 .363	- 7/12 .583
- 1/18 .055	- 2/11 .181	- 4/9 .444	- 7/11 .636
- 1/17 .058	- 2/9 .222	- 4/7 .571	- 7/10 .706
- 1/16 .062	- 2/7 .285	- 4/5 .800	- 7/9 .777
- 1/15 .066	- 2/5 .400	- 5/19 .263	- 7/8 .875
- 1/14 .071	- 2/3 .666	- 5/18 .277	- 8/15 .533
- 1/13 .076	- 3/20 .150	- 5/17 .294	- 8/13 .615
- 1/12 .083	- 3/19 .157	- 5/16 .312	- 8/11 .727
- 1/11 .090	- 3/17 .176	- 5/14 .357	- 8/9 .888
- 1/10 .100	- 3/16 .187	- 5/13 .384	- 9/14 .642
- 1/9 .111	- 3/14 .214	- 5/12 .416	- 9/13 .692
- 1/8 .125	- 3/13 .230	- 5/11 .454	- 9/11 .818
- 1/7 .142	- 3/11 .272	- 5/9 .555	- 9/10 .900
- 1/6 .166	- 3/10 .300	- 5/8 .625	- 10/13 .769
- 1/5 .200	- 3/8 .375	- 5/7 .714	- 10/11 .909
- 1/4 .250	- 3/7 .428	- 5/6 .833	- 11/13 .846
- 1/3 .333	- 3/5 .600	- 6/17 .352	- 11/12 .916
- 1/2 .500	- 3/4 .750	- 6/13 .461	
1/1 1.000		- 6/11 .545	
		- 6/7 .857	

epimores hold
mediamts hold

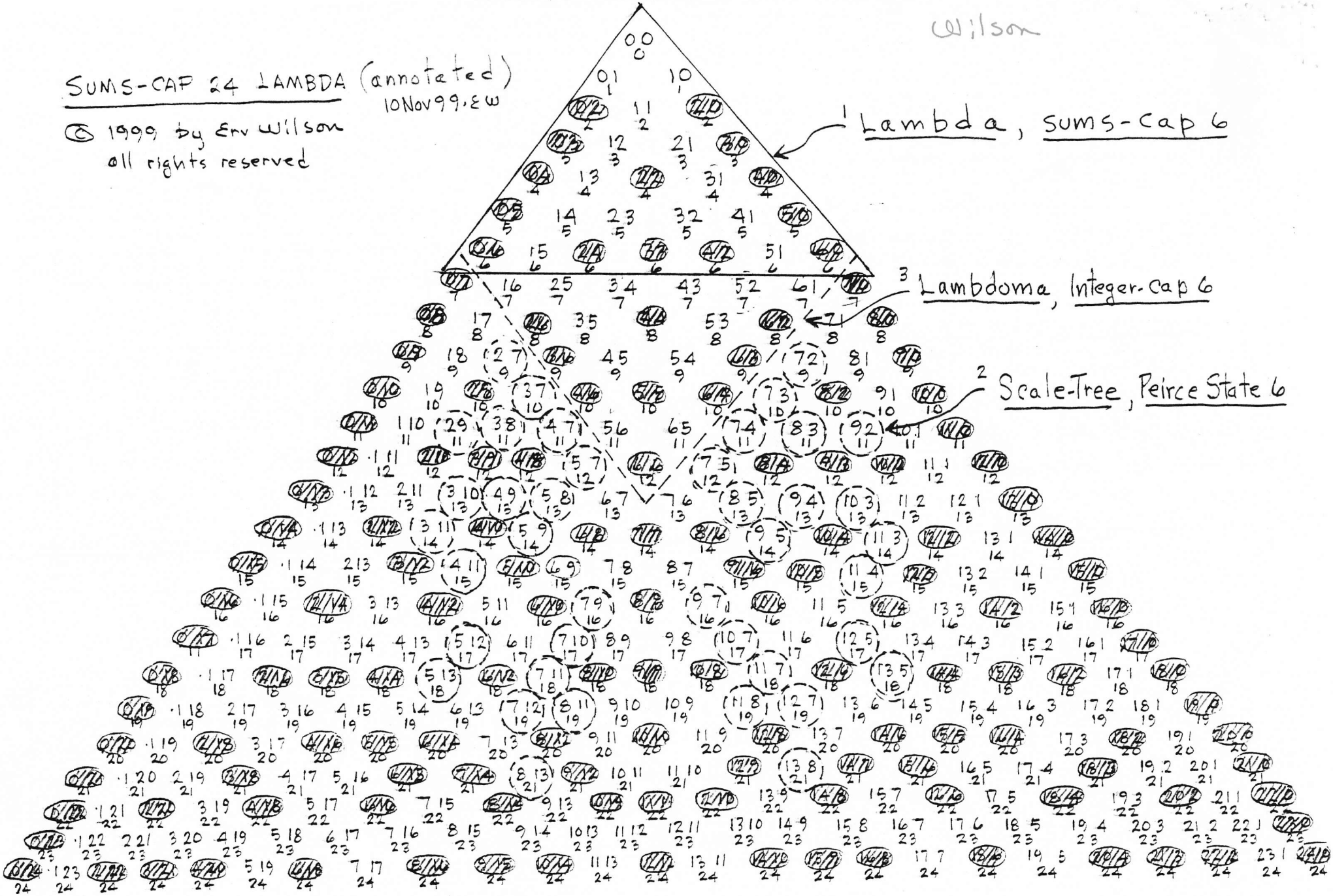
SUMS-CAP 24 LAMBDA cont.

0/1					
. 1/23	0/1				
. 1/22	23/22				
. 1/21	22/21				
. 1/20	21/20				
. 1/19	20/19				
. 1/18	19/18				
. 1/17	18/17				
. 1/16	17/16				
. 1/15	16/15				
. 1/14	15/14				
. 1/13	14/13				
. 1/12	13/12				
. 1/11	12/11				
. 2/21	22/21				
. 1/10	21/20				
. 2/19	20/19				
. 1/9	19/18				
. 2/17	18/17				
. 1/8	17/16				
. 2/15	16/15				
. 1/7	15/14				
. 3/20	21/20				
. 2/13	40/39				
. 3/19	39/38				
. 1/6	19/18				
. 3/17	18/17				
. 2/11	34/33				
. 3/16	33/32				
. 1/5	16/15				
. 4/19	20/19				
. 3/14	57/56				
. 2/9	28/27				
. 3/13	27/26				
. 4/17	52/51				
. 1/4	17/16				
. 5/19	20/19				
. 4/15	76/75				
. 3/11	45/44				
. 5/18	55/54				
. 2/7	36/35				
. 5/17	35/34				
. 3/10	51/50				
. 4/13	40/39				
. 5/16	65/64				
. 1/3	16/15				
. 6/17	18/17				
. 5/14	85/				
. 4/11	56/55				
. 3/8	33/32				
. 5/13	40/39				
. 2/5	26/25	. 7/17	35/34		
		. 5/12	85/84		
		. 3/7	36/35		
		. 7/16	49/48		
		. 4/9	64/63		
		. 5/11	45/44		
		. 6/13	66/65		
		. 7/15	91/90		
		. 1/2	15/14		
		. 8/15	16/15		
		. 7/13	105/104		
		. 6/11	78/77		
		. 5/9	55/54		
		. 4/7	36/35		
		. 7/12	49/48		
		. 3/5	36/35		
		. 8/13	40/39		
		. 5/8	65/64		
		. 7/11	56/55		
		. 9/14	99/98		
		. 2/3	28/27		
		. 9/13	27/26		
		. 7/10	91/90		
		. 5/7	50/49		
		. 8/11	56/55		
		. 3/4	33/32		
		. 10/13	40/39		
		. 7/9	91/90		
		. 4/5	36/35		
		. 9/11	45/44		
		. 5/6	55/54		
		. 11/13	66/65		
		. 6/7	78/77		
		. 7/8	49/48		
		. 8/9	64/63		
		. 9/10	81/80		
		. 10/11	100/99		
		. 11/12	121/120		
		. 1/1	12/11		
		12/11			
		etc			

Wilson

SUMS-CAP 24 LAMBDA (annotated)

10Nov99.EW



Ref:

1 Yasserian Keyboard Guide, 1994 Erv Wilson
2 Scale-Tree (Peirce Sequence), 1994 Erv Wilson
3 So-Called Farey Series, extended 0/1 to 1/0, 1996 Erv Wilson
www.anaphoria.com (click wilson archives)

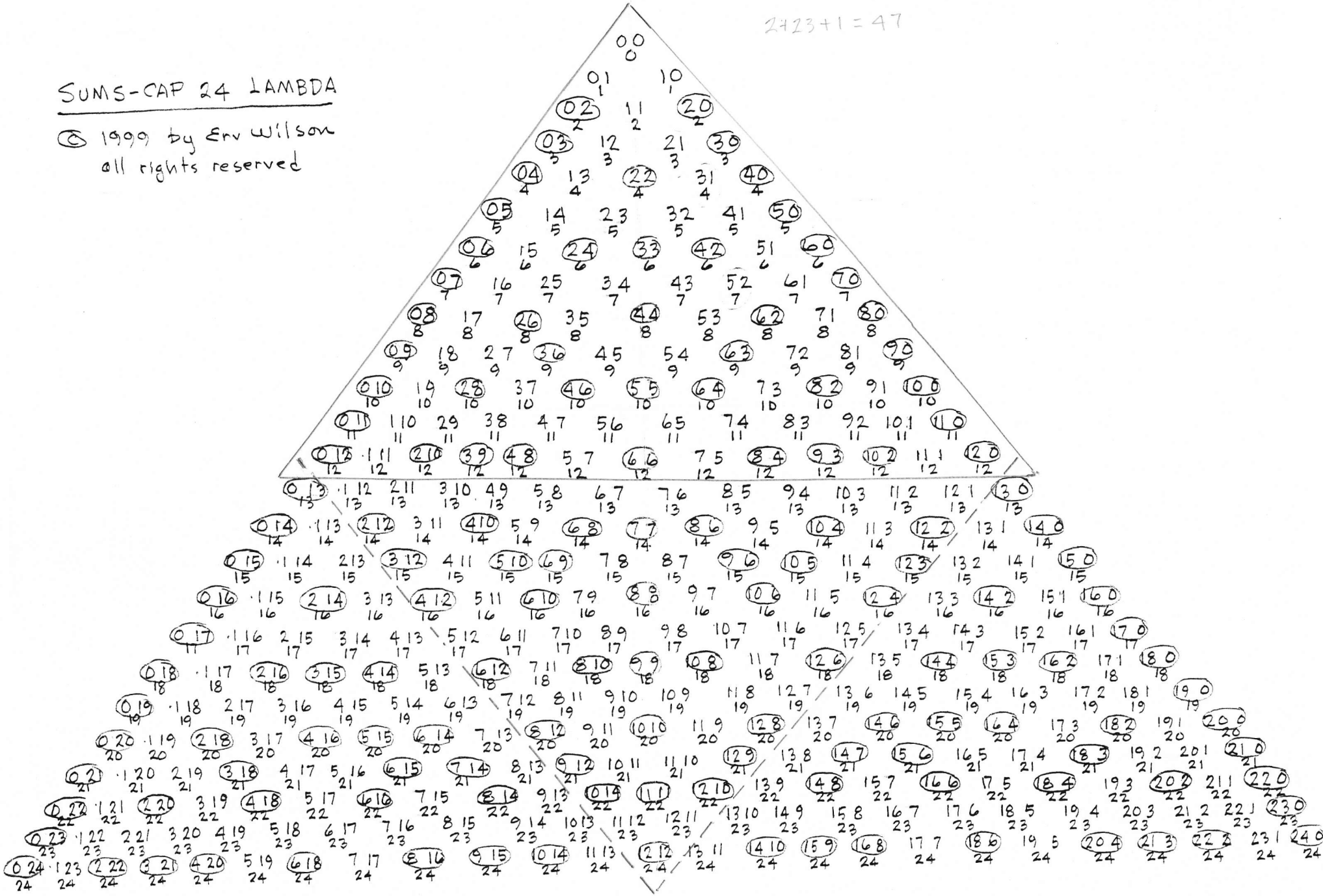
annotated 10Nov99.EW

24OCT99-E.W.
sheet 1

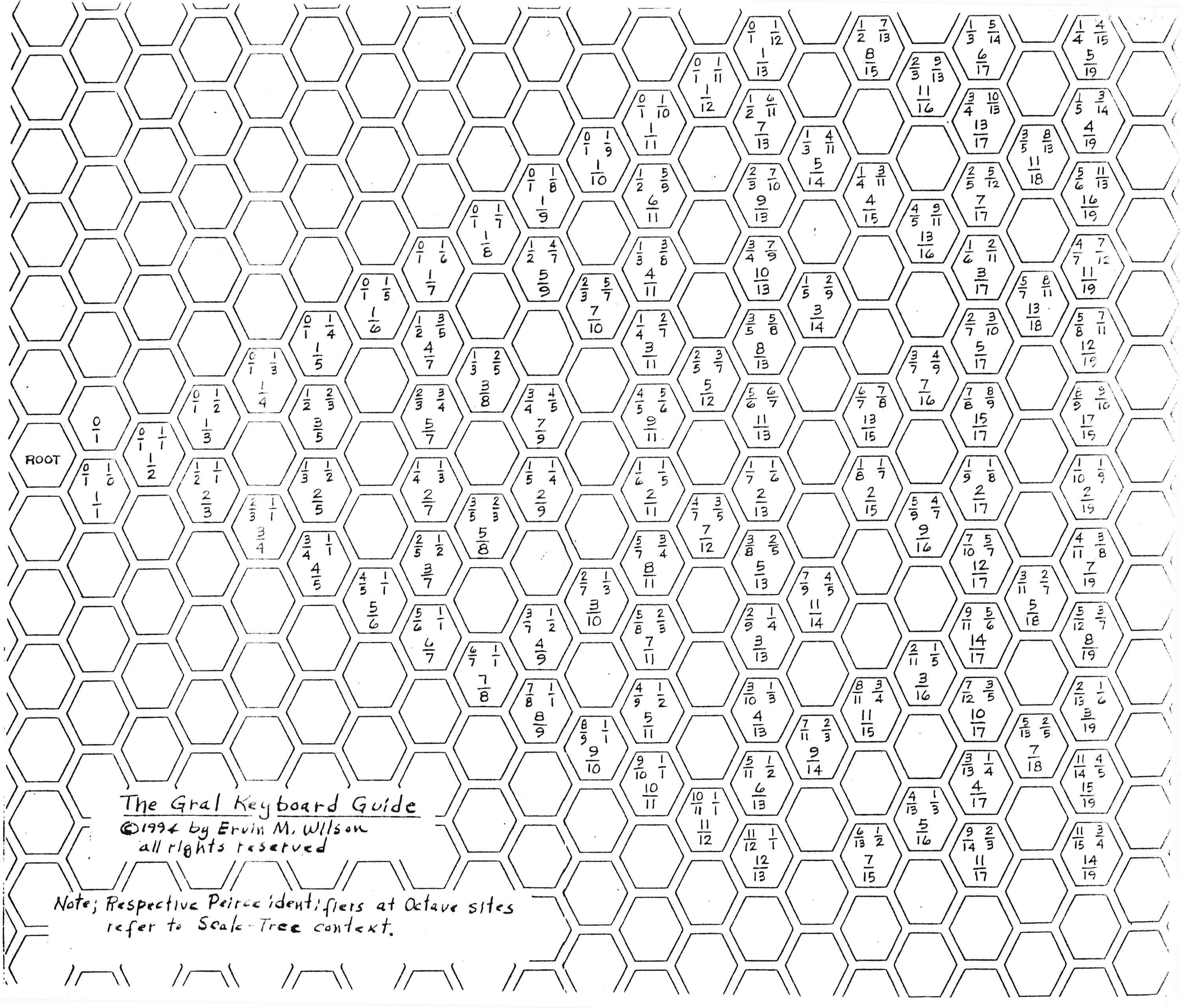
5

2+23+1 = 47

SUMS-CAP 24 LAMBDA

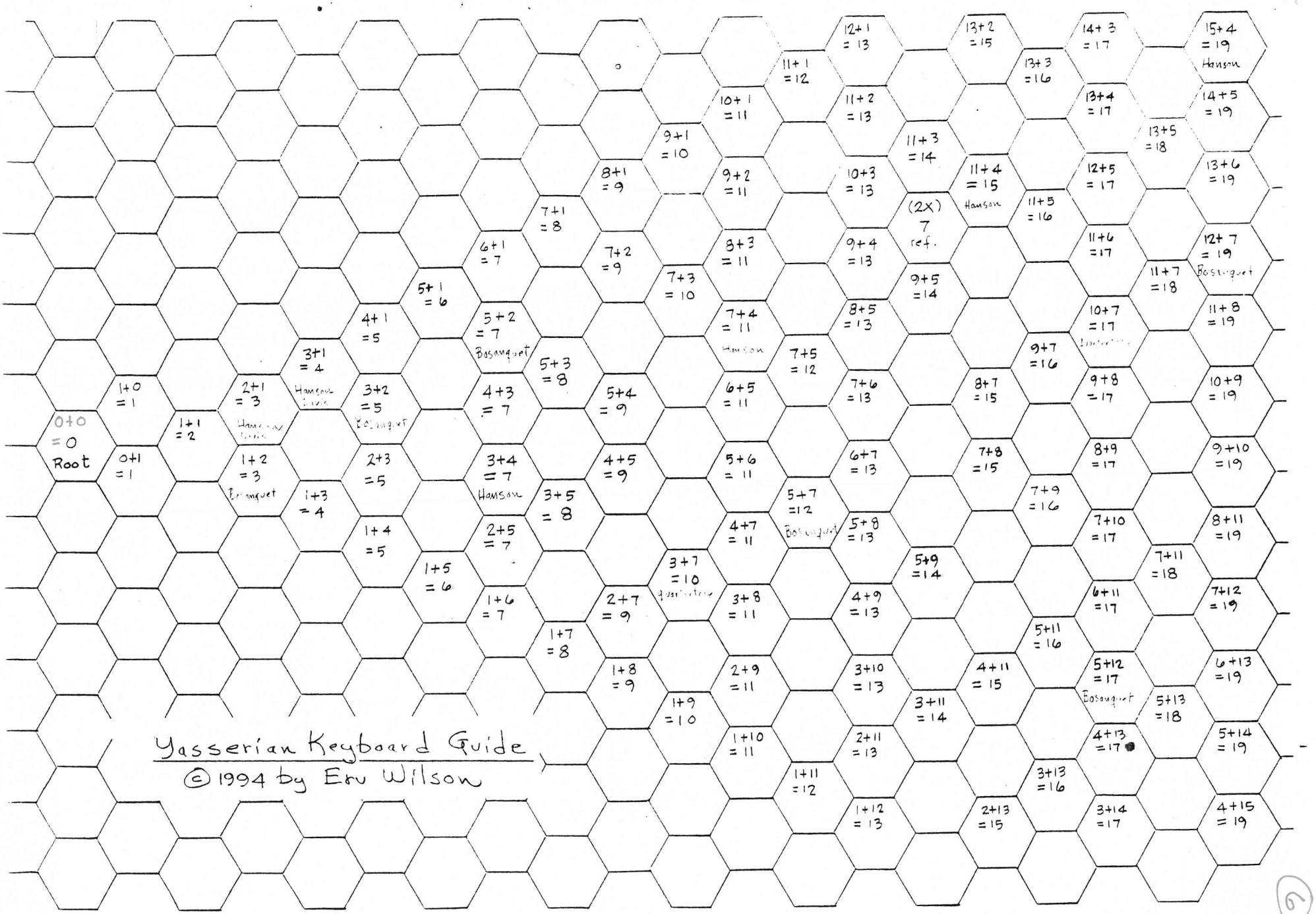


24OCT99 - E.W.
sheet 1



The Gral Keyboard Guide

Note; Respective Peirce identifiers at Octave sites refer to Scale-Tree context.



Yasserian Keyboard Guide