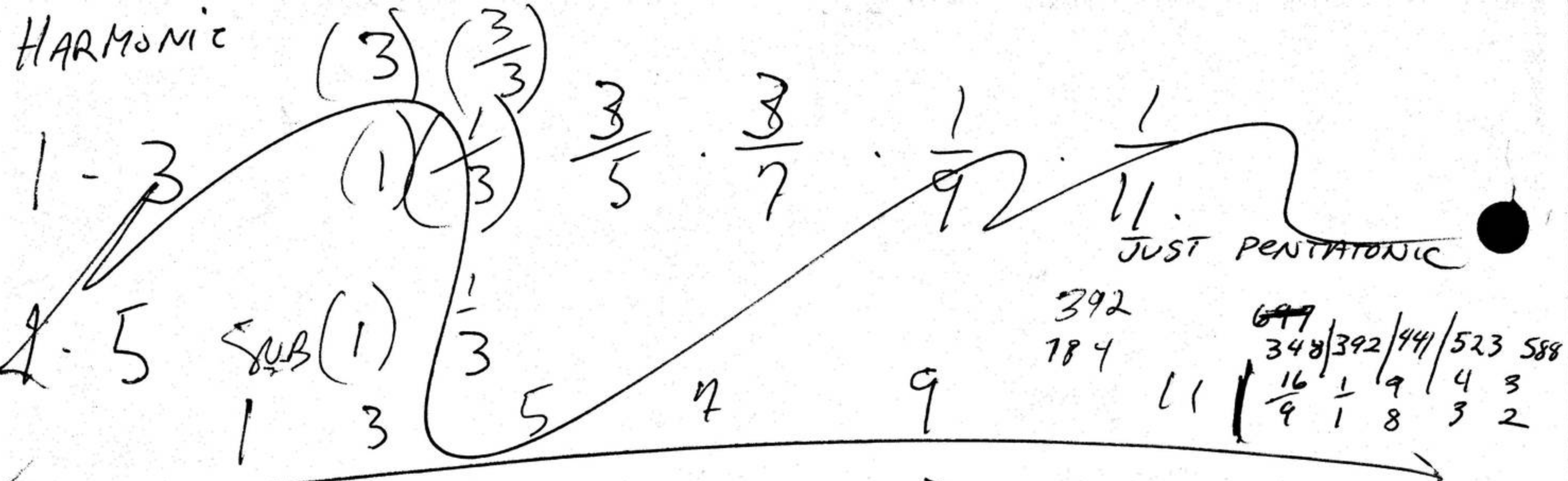


HARMONIC



1-3	(3)	(3/3)	3/5	3/7	3/9	3/11		
1-5	(5)	5/3	(5/5)	5/7	5/9	5/11	11	63/11 (7) (9)
1-7	(7)	2/3	7/5	(7/7)	7/9	7/11	9	(7) 77/9 (11)
1-9	(9)	9/3	9/5	9/7	(9/9)	9/11	9	(7) 77/9 (11)
1-11	(11)	11/3	11/5	11/7	11/9	(11/11)	7	(9) (11) 2/9
3-5	960 15	(5/3)	(3)	15/7	15/9	15/11	5	(9) (11) 9/5
3-7	21	(7)	21/5	(3)	21/9	21/11	5	63/5 77/5 99/5
3-9	27	(9)	27/5	27/7	(3)	27/11	3	63/3 77/3 99/3
3-11	33	(11)	33/5	33/7	33/9	(3)	3	63/3 77/3 99/3
5-7	35	35/3	(7)	(5)	35/9	35/11	SUB	7-9 63 77 99
5-9	45	45/3	(9)	45/7	(5)	45/11		7-11 77 99
5-11	55	55/3	(11)	55/7	55/9	(5)		9-11 99

15 ratio overlap positions

Common ratio	3 Note superimposition	Result
1 * $\frac{9}{8}$	576 - 3 Note superimposition = 576	= 528
2 - $\frac{12}{11}$	576 - $\frac{12}{11}$	$\frac{12}{11} \times 576 = 880$
3 - $\frac{11}{10}$	576 - $\frac{12}{11}$ - $\frac{11}{10}$ - $\frac{12}{11}$	= 720
4 - $\frac{10}{9}$	576 - $\frac{3}{2} + \frac{5}{4}$	= 864
5 - $\frac{9}{3}$ or $\frac{3}{1}$	576 + $\frac{3}{2}$	= 898
6 - $\frac{8}{7}$	576 + $\frac{1}{6} + \frac{4}{3}$	= 672
7 - $\frac{7}{6}$	576 + $\frac{7}{6}$	= 972
8 - $\frac{6}{5}$	576 - $\frac{6}{5}$	= 792
9 - $\frac{11}{9}$	576 - $\frac{12}{11}$ - $\frac{11}{9}$ - $\frac{12}{11}$	= 690
10 - $\frac{5}{4}$	576 + $\frac{10}{9}$	= 672
11 - $\frac{14}{11}$	576 + $\frac{7}{6}$ - $\frac{12}{11}$	= 1008
12 - $\frac{9}{7}$	576 + scribble $\frac{7}{4}$	= 768
13 - $\frac{4}{3}$	576 + $\frac{4}{3}$ ($\frac{1}{3}$)	= 704
14 - $\frac{11}{8}$	576 + $\frac{4}{3}$ - $\frac{12}{11}$	= 560
15 - $\frac{7}{5}$	576 - $\frac{6}{5} + \frac{7}{6}$	

group theory
on different
temp scales
LIZARD

overlap harmonic + subharmonic identities
generalized control device
John R. Pierce
CAL - TFCU

Don Andrus
Gong - tones
PHD
Santa Barbara
Music Dept.
961-2311 5261
3288

[PURPLE] 3

RED 7 [ORANGE]

YELLOW 4

GREEN 9

[CYAN] 5

BLUE 11

PURPLE 3

[INDIGO]

(VIOLET)

MAGENTA 11

RED 3

ORANGE 7

YELLOW 1

GREEN 9

BLUE 5

MAGENTA 11

of 100

Handwritten notes on the left margin, including "100" and "of 100".

Form R. Pierce
CAL - TCH
Don Adams
Bond - 6th

Handwritten notes on the right margin, including "100" and "of 100".

