

freeHorn Canon

for tape and 7 guitars
 or for tape and 7 tubas
 Polansky (notes)
 4/15/08

Four Voice Canon #23a (freeHorn canon) for tape
 Four Voice Canon #23b (freeHorn canon) for tape and 7 guitars
 Four Voice Canon #23c (freeHorn canon) for tape and 7 tubas

23a

Six minutes

(for canon b, low C = 64.406, is the lowest C in the piece, on the guitar (the VI string tuned down))

(There is one extra tape track, at an octave below that fundamental, 1:1.5:1, only 12 harmonics, quite slow)

Timings

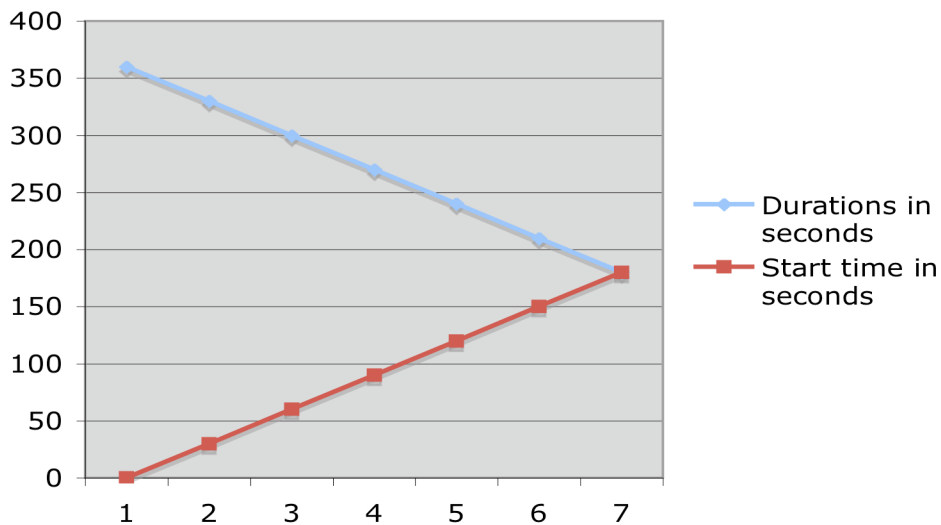
Voice	Num.	Den.	Ratio	Duration	St. Time	Dur. (sec.)	St. time (sec.)
1	12	6	2	6	0	360	0
2	11	6	1.833	5.5	0.5	330	30
3	10	6	1.667	5	1	300	60
4	9	6	1.5	4.5	1.5	270	90
5	8	6	1.333	4	2	240	120
6	7	6	1.167	3.5	2.5	210	150
7	6	6	1	3	3	180	180

Voice	<i>ratios (1)</i>	<i>ratios (5)</i>	<i>ratios (3)</i>
1	2	1.25	1.5
2	1.8333333333	1.1458333333	1.375
3	1.6666666667	1.0416666667	1.25
4	1.5	0.9375	1.125
5	1.3333333333	0.8333333333	1
6	1.1666666667	0.7291666667	0.875
7	1	0.625	0.75

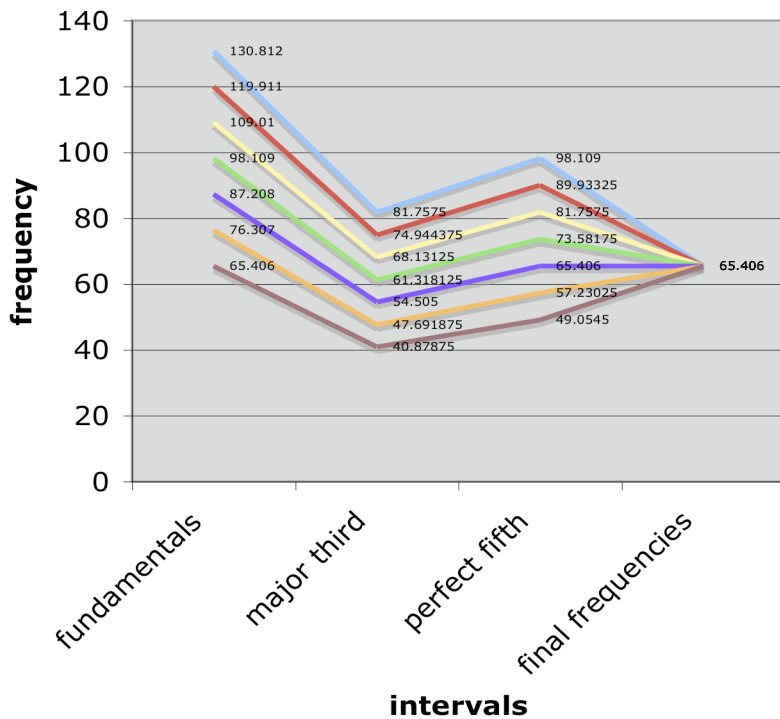
Tunings (frequencies)

fundamentals	M3rd	P5th
130.812	81.7575	98.109
119.911	74.944375	89.93325
109.01	68.13125	81.7575
98.109	61.318125	73.58175
87.208	54.505	65.406
76.307	47.691875	57.23025
65.406	40.87875	49.0545

Durations and Start Times freeHorn (guitar canon)



Fundamentals, 3 sections freeHorn (guitar canon)



fundamental frequencies
freeHorn (guitar canon)

