Tempi by compound Ratio

4:5:6:7:8:9

↳ $\{\frac{1}{1}, \frac{5}{4}, \frac{3}{2}, \frac{7}{4}, \frac{2}{1}, \frac{9}{4}\}$

~~↳ 39 × 4:5:6:7:8:9~~

~~↳ {39, 48.75, 58.5, 68.25, 78, 87.75}~~

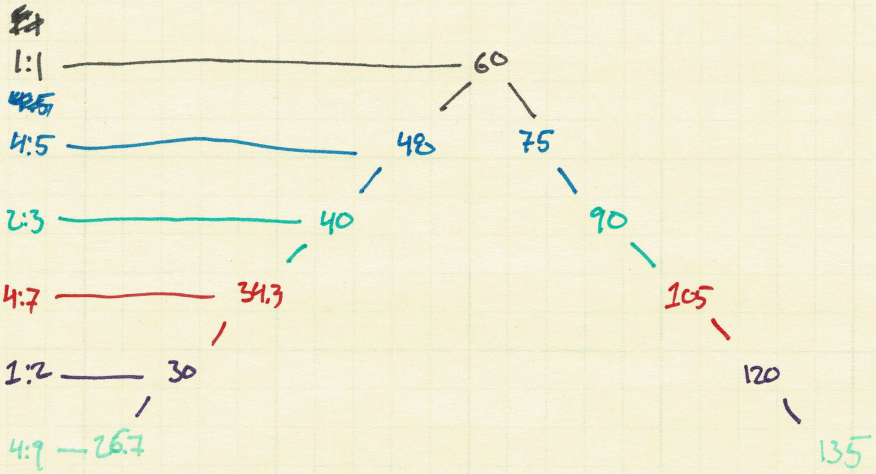
↳ 60 × 4:5:6:7:8:9

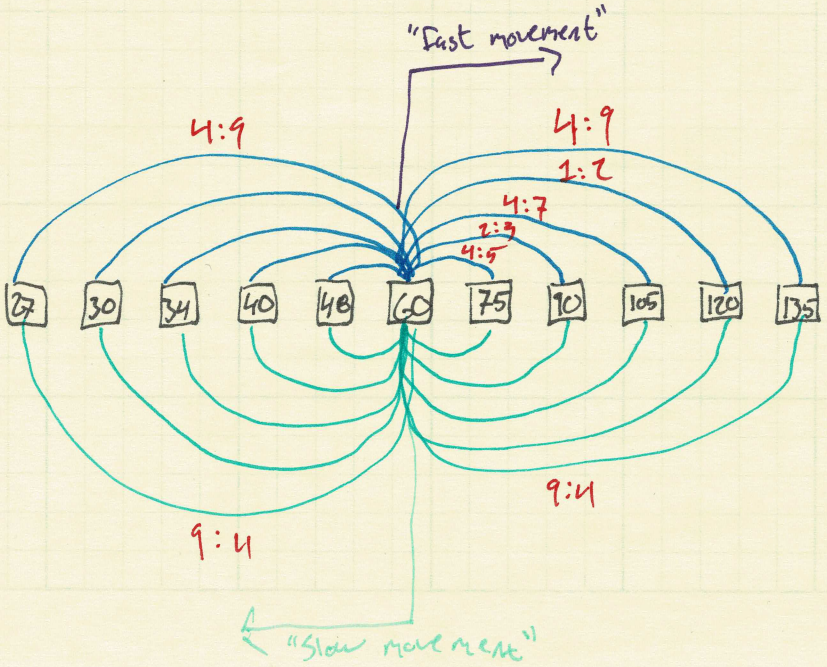
↳ {60, 75, 90, 105, 120, 135}

↳ 60 × 9:8:7:6:5:4

↳ $\{\frac{1}{1}, \frac{4}{5}, \frac{2}{3}, \frac{4}{7}, \frac{1}{2}, \frac{4}{9}\}$

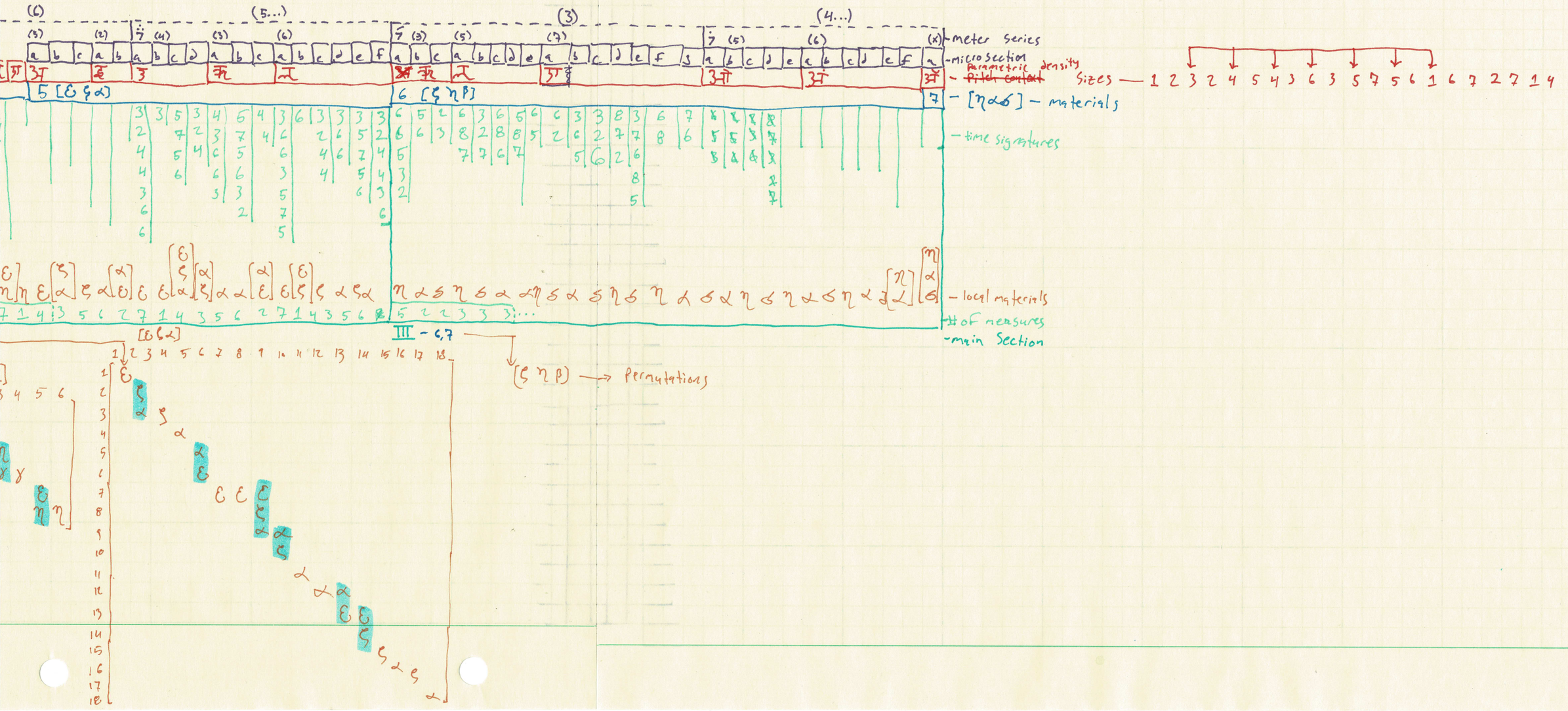
↳ {60, 48, 40, 34.29, 30, 26.7}





QB June 2023 GRE

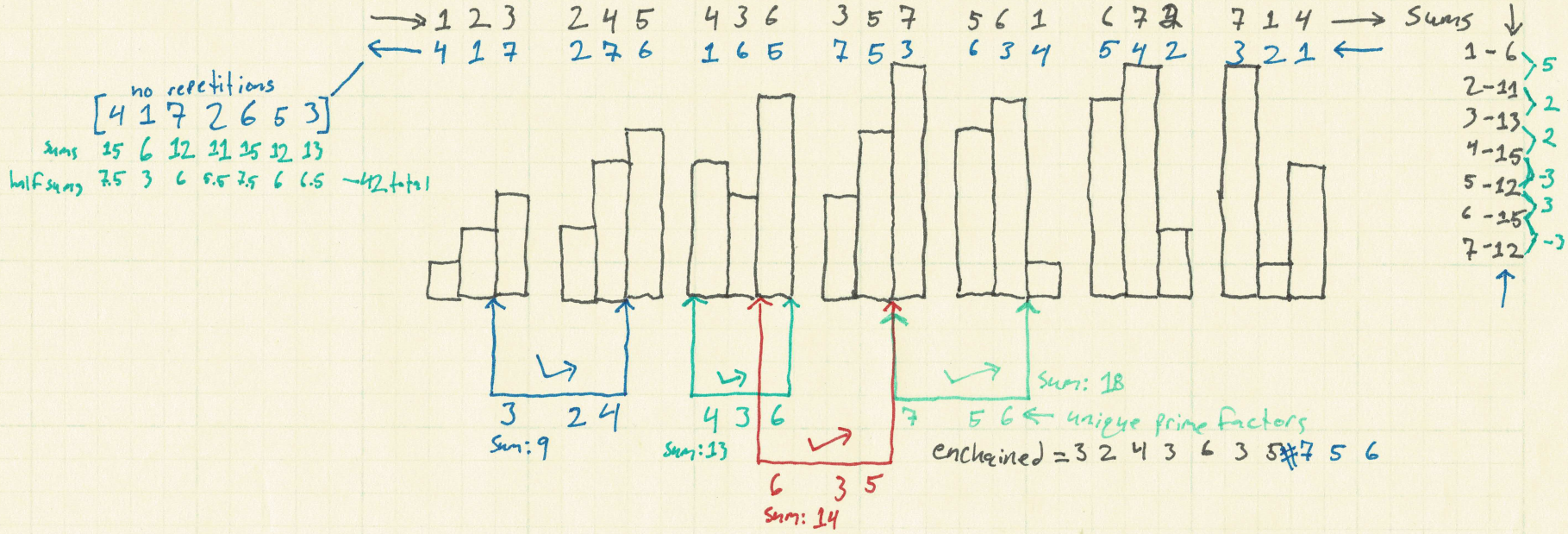
Infiorescenze, o liberabaci



Source Patterns

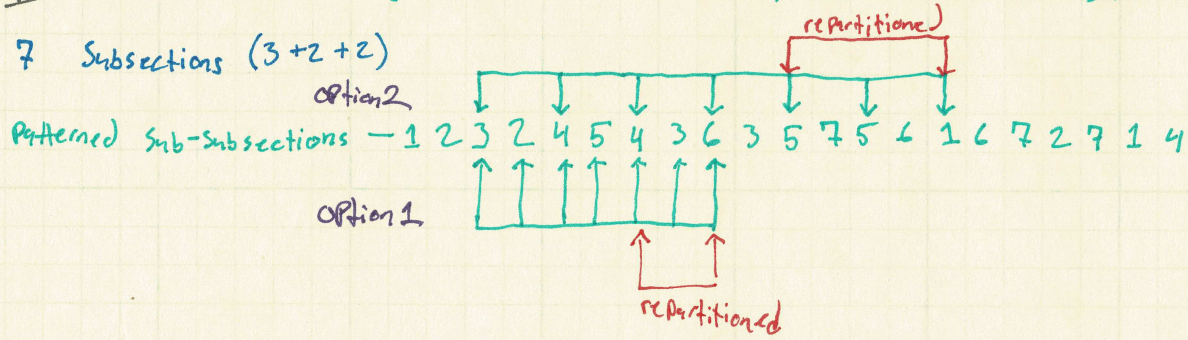
$\Sigma = \{\alpha\beta\gamma\delta\varepsilon\zeta\eta\}$

$\Sigma = \{ \alpha\beta\gamma \;\; \beta\delta\varepsilon \;\; \delta\gamma\zeta \;\; \gamma\varepsilon\eta \;\; \varepsilon\zeta\alpha \;\; \zeta\eta\beta \;\; \eta\alpha\delta \}$



III sections I - dense ↗ increase II - ↓ sudden drop! less dense III ↗↗↗ increasing Plateaus - most dense ↓ sharp drop at end!

7 Subsections (3 + 2 + 2)



9 available microdivisions (across subsections)

[अ, इ, उ, ऋ, ऌ, ए, ओ, ऐ, औ] — Parametric densities

less dense ⟶ more dense

5 time signature patterns:
- i - contoured
- i - permuted
- i - alternate
- i - conjoint
- i - irrational insertion

- α - microforms (miniaturized versions of all types)
- β
- γ
- δ - polyphonic accent structures
- ε - voice
- ζ - interruptive polyphony (similar to α)
- η - gliss up (long) / timbre-shifting longtones

28 June 2023 GAE

Time Signatures

rotations upon recurrence

+1's contoured $\vec{i}$ – [3 2 4 4 3 6 6 3 5 7 5 6] – [looping]

+0's

+2's permuted (heliorthiated) (-1, 1) $\vec{i}$ – [[8,7,6][6,5][3,2]] = 8 7 6 6 5 3 2 4 5 6 2 3 6 8 7 // 3 2 7 6 8 6 5 // 8 7 6 5 6 2 3 // ...

6 5 3 2 6 8 7 4 2 3 7 6 8 5 6 – [looping]

+3's alternate $\vec{i}$ – [9 2 8 3 7 4 6 5 9 2 8 2 7 2 6 2 2 4 3 5 2 4 3 5 2 7 3 7 4 7 5 7 6 7]

reversed and +-

+5's conjoint $\vec{i} + \vec{i}$ (translate $+\frac{3}{8}$)

$\vec{i}$ – [3 2 4 2 2 3 2 4 2 4 2 1 4 1 2 2 3 2 3 3 2 1 2 1 2 ...

rewrite denominators as 8's

left-fuse $\frac{1}{8}$ 3 2 4 2 2 3 2 4 2 4 3 6 2 2 3 2 3 3 3 2 4 4 3 7 3 2 3 5 5 2 6 6 2 3 3 5 2 6 6 4 4 2 2 ...

+7's "irrational" insertion $\vec{i}$ – [4 2 3 5 3 6 5 3 3 10 3 6 3 3 2 4 4 8 7 6 6 3 6 6 3 5 3 2 5 5 7 5 6 6 2 3 6]

? 8 4 4 12 4 4 12 8 8 12 4 8 4 8 4 4 12 4 4 12 8 8 12 4 8 24 8 4 4 12 4 4 12 8 8 12 24 ...

non-power-of-2-denominated = NP2D

☆ Conjoint in reverse / periodically subtract "irrational" duration

mostly over 8 but free to change denominators?

June 29 2023 GRT

Pitch

あ – Fibonacci-related pitch segments 0 1 1 2 3 5 8 13 21 34 55 – don't use as pitch classes?

interval sequence – 1 2 3 5 8 13 pitches x 1.5 from center pitch interleave the two

い – contoured series joseplays? Potamia?

う – Guerrero – derived pitches?

え – L-System – derived pitches?

お – munged cantus firmus (piazzola?)

30 June 2013 GHE

Decoupled gesture archetypes

1. – airyness + or –
2. – glissando ↗ or ↘
3. – instrument angle ↻ → ↺
4. – embouchure tension ■ → ▯ → □
5. – trill
   - a. – written out w/ interference pitches
   - b. – pitch runs
6. – mouth articulation (consonants)
7. – before-graces
8. – on-beat-grace flurries
9. – bisbigliando
   - a. – microtonal pitch waver
   - b. – pitch-bend wiggle
10. – Sing and play (vowels)
    - a. – beats
11. – Vibrato / smorzando
    - a. – accents
    - b – polyphonic accents
12. – Key clicks
13. – legato / articulated (i.e. rearticulated like guerrero)
14. – tongue / no tongue / lip
15. – frullato (tongue or throat) – *Josh can't do tongue
16. – pitch bends

Some coupling ideas

1. – airy + glissando
2. – airy + trill
3. – accented + trill
4. – pitch bend + rearticulation
5. – airy + frullato + on-beat-grace flurries
6. – bisbigliando + sing
7. – long glissando + airy
8. – long glissando + polyphonic accents
9. – Sustained tone + polyphonic accents
10. –

Some rhythm ideas

1. – subdivided note marker
2. – subdivides unity capsule
3. – unsichtbare farben
4. – even division
5. – talea (glissando)
6. – talea (re-articulation)
7. – even division → accelerando
8. – repeated RTM structure (re-proportioned stutter)

2 July 2023 GRE

begins piece

α ~~microforms~~ — Rhythm 1, 3, ~~X~~, ~~X~~

bisbigliando / pitch-bend wiggle
rearticulation-color / rearticulation-talea

quiet

8va 1

β – even divisions + periodic accents (derived from integer series) } – ascending integer series
– pitches derived from intervals of integer series

– trill / trill-figures

quiet + very loud accents → loud + staccato → loud + subito quiet

Rhythm 4, 7

8va 2
frozen idea?

γ – leapy
bursts voice
lunges
microforms?

highly varied dynamic range
overall effect loud?

Rhythm 1, 2, 3

8va 3

δ – airy glissando (talea)

* episode of unity capsule
* usually like forlorn

8va 1

morphing long tones

– pitches 1 semitone at a time

soft → loud
both per statement and across statements

↳ air / tension / vib / angle / frullato / voice / vowel!

– add polyphonic accent structure at climax

Rhythm 5, 8

~~frozen idea~~?

ε – interruptive polyphony: relatively easygoing

— — - - . . - —] β, ε, 5

8va 2

– change material of ① layer each appearance

layers dynamically distinct

Rhythm 1 (by hand?), 8?

ς – articulated
key clicks, pizzicato, phonetic
before grace / on-beat-grace

o → ● , s < p > ...

8va 3

usually loud occasionally punctured by soft

episode!

Rhythm ~~X~~, 6, 3 (? or 2), obgc, 8

ends piece

η – tight microtonal voice-leading – random walk?

fast → slowing down

8va 2

runs

frighteningly stable?

can be made to ascend or descend

any dynamic { sometimes / sometimes varied < > ...

Rhythm 1, ~~X~~, 4, 6, 7

Desiderata

- microformss
  ↳ miniaturized versions of everything else
- polyphonic accent structure
- voice
- interruptive polyphony (~~like~~ α?)
- gliss up (long)
  ↳ 1 semitone at a time
    ↳ close holes on alto
- timbre-shifting long tones

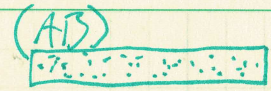
what happens when well-defined materials fuse?

0. interpolate A → B
1. all combinations of characteristic features are allowable
2. only the most distinctive feature of one or the other or both is allowed
3. microformal alternation between the two (likely requires rhythmic unification because alternations by measure too big)

Rhythm
Partition rhythms a little better?
2 max? excluding ε (3 in rare cases?)
↑ appearances ↑ appearances

Statement Types

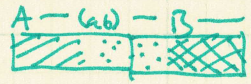
Microformal – lots of small instances of A aw B



related

Oppositional – A is Contrasted by B

evolutional – A becomes B (or more like B)

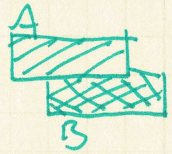


interruptive – A (or A's process) is Stopped by B (but can begin again)

related

variegated – A is happening with B

↳ ligature – Characteristics of A and B are recombined to form a new compound material



incised/imbricated – A is cut into/layered between B