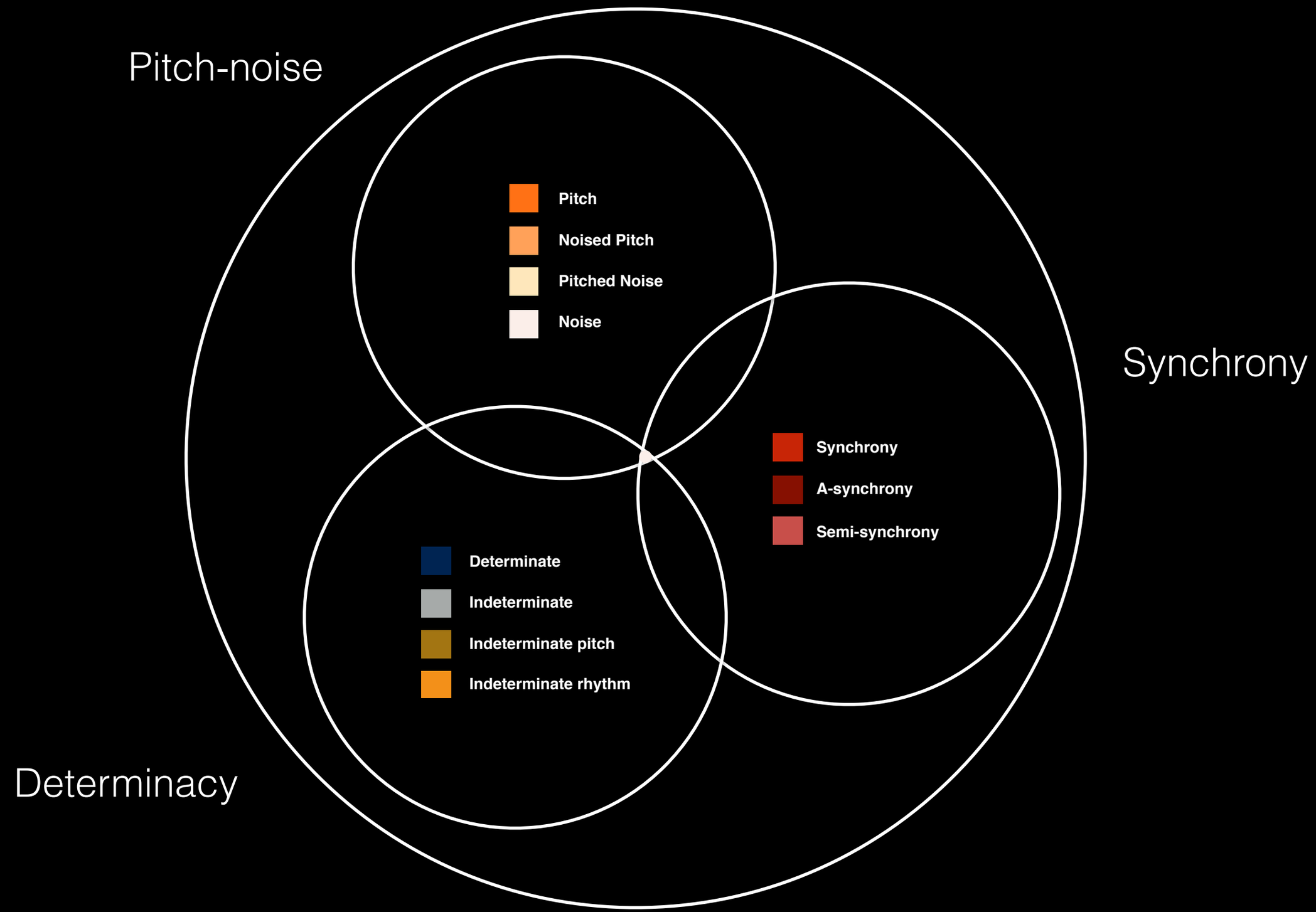
# Korwar

## for harpsichord and tape (1972)

### by François-Bernard Mâche (b. 1935)

Analysis by Christopher Luna-Mega

# Analytic categories



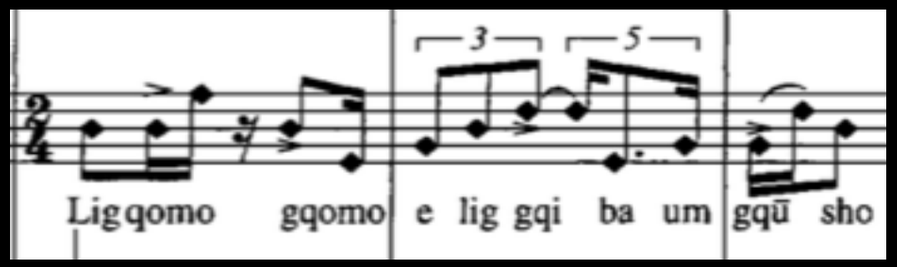
# Models: pitch/noise profile

| | |
|---|---|
| Shama 2 | **Pitch** |
| Guanaco | **Pitch** |
| Starling | **Noised Pitch** |
| Xhosa | **Noised Pitch** |
| Frogs | **Noised Pitch** |
| Killer Whale | **Noised pitch** |
| Boar | **Pitched Noise** |
| Shama 1 | **Pitched Noise** |
| Old Boar | **Pitched noise** |
| Guanaco | **Pitched Noise** |
| Shrimp | **Noise** |
| Rain | **Noise** |

# Models: transcription notations

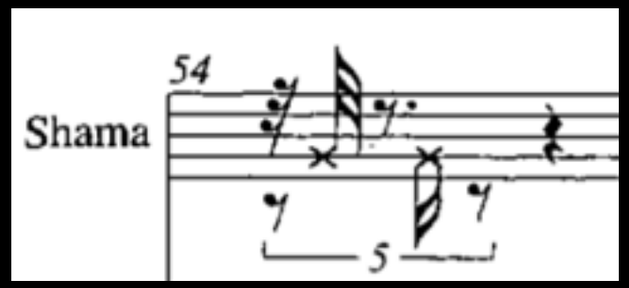
## Xhosa

- Noised Pitch



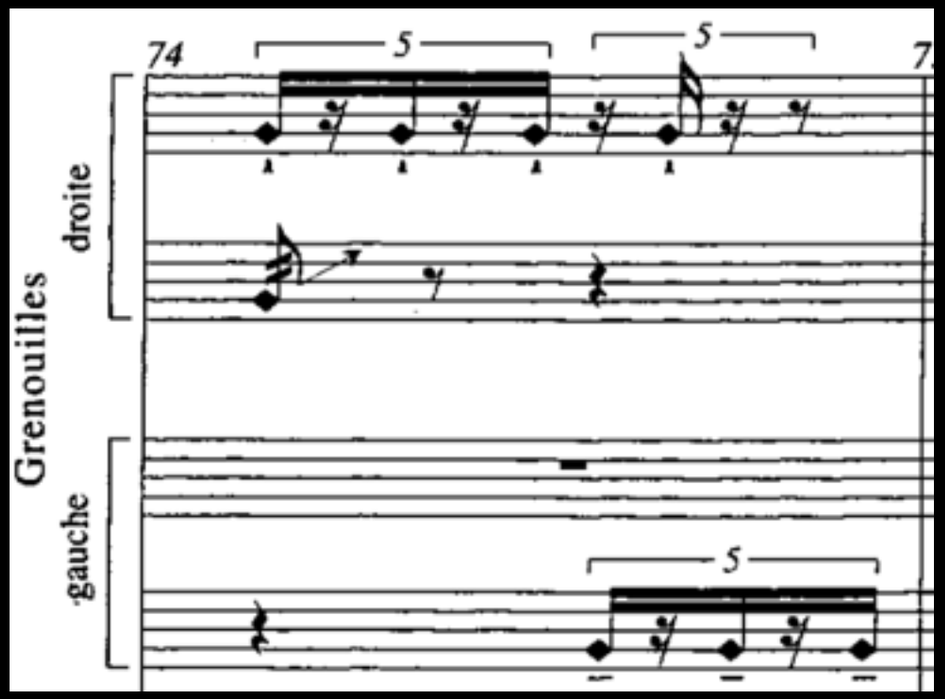

## Shama 1

- Pitched Noise




## Frogs

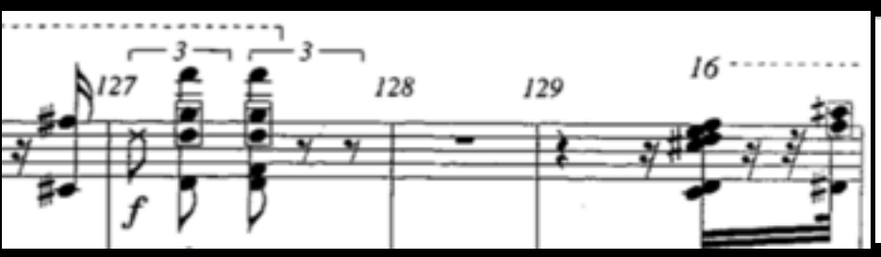
- Noised Pitch



# Models: transcription notations

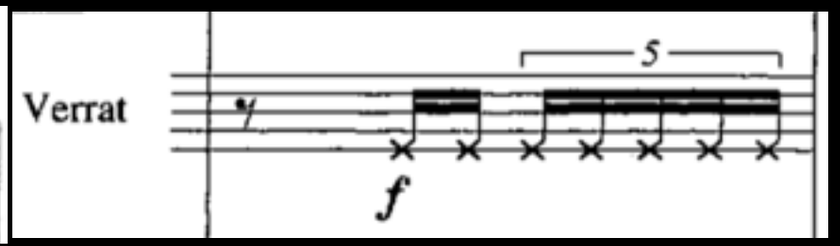
**Starling**

- Noised Pitch



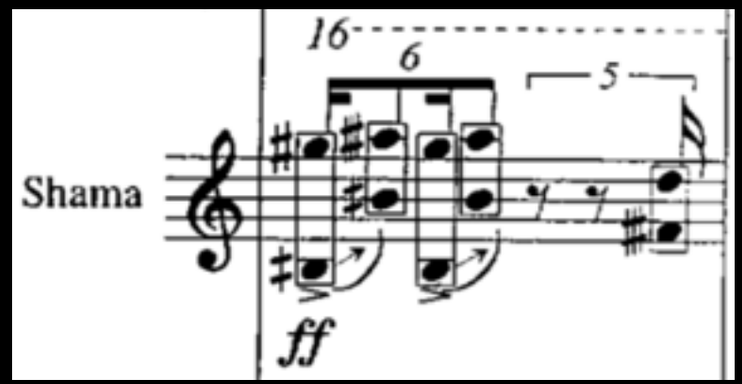

**Boar**

- Pitched Noise




**Shama 2**

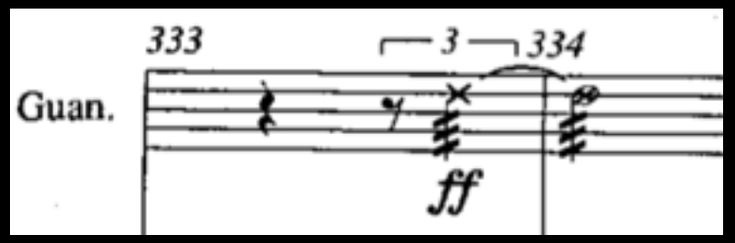
- Pitch

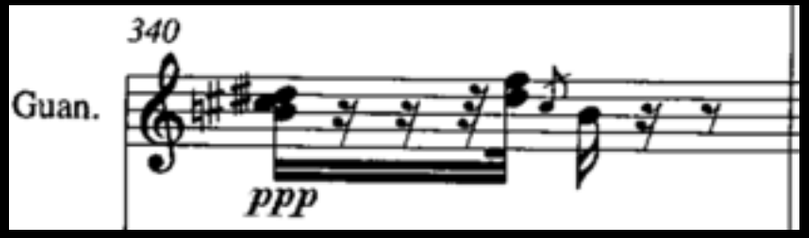


# Models: transcription notations

## Guanaco

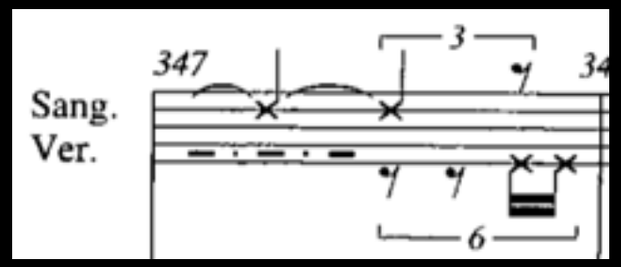
- Pitched Noise
- Pitch




## Old Boar I Boar

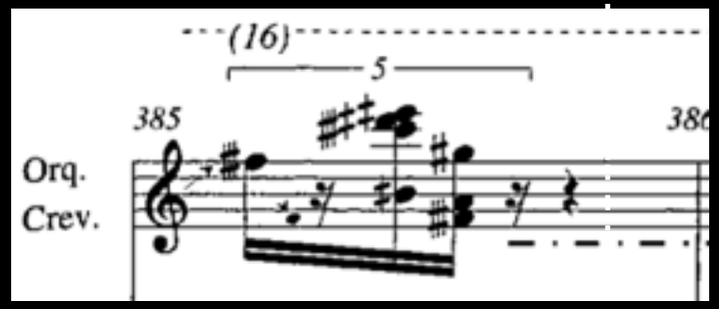
- Pitched noise



# Models: transcription / notations

**Killer Whale**

**Noised pitch**

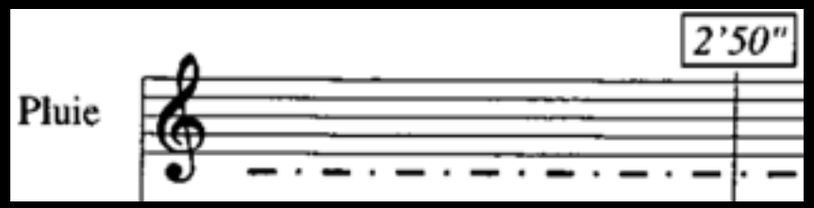



**Shrimp**

**Noise**

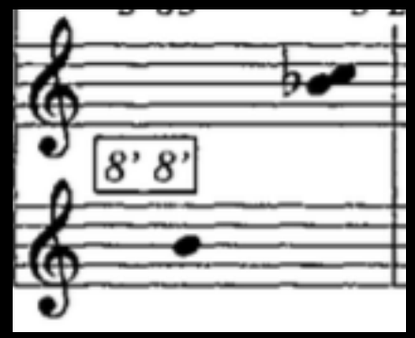
**Rain**

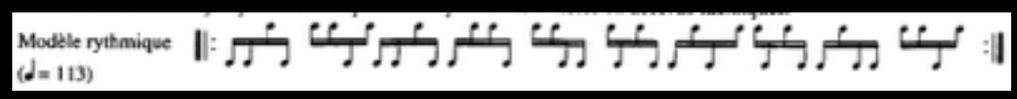
**Noise**



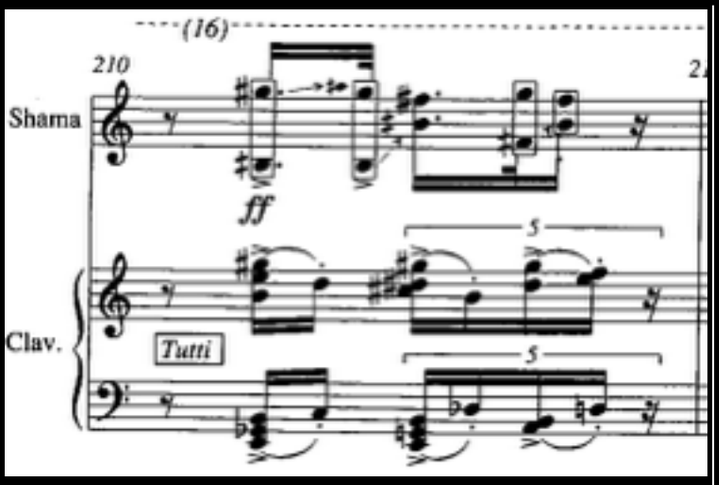

**Harpsichord**

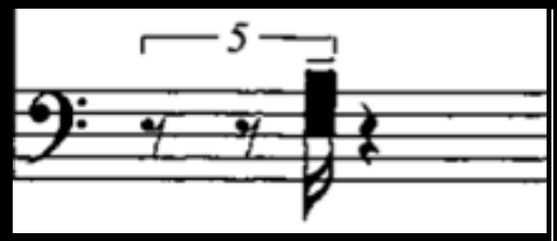
**Pitch**

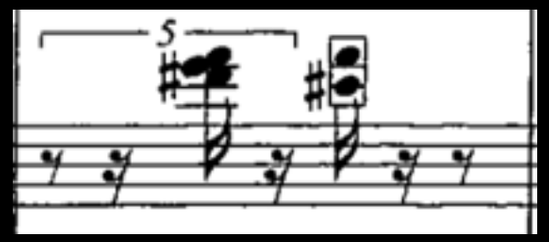


# Harpsichord: notations for pitch and noise



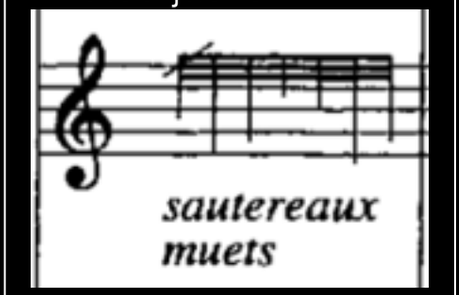




wide cluster improvisation with four given rhythms:

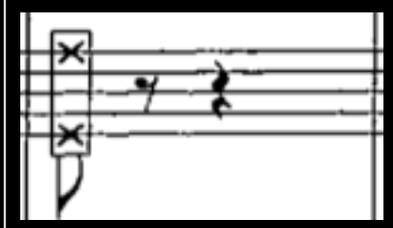
wide cluster improvisation of "uneven sixteenth notes without creating cycles, with brief silences, progressively adding aggregates". model:

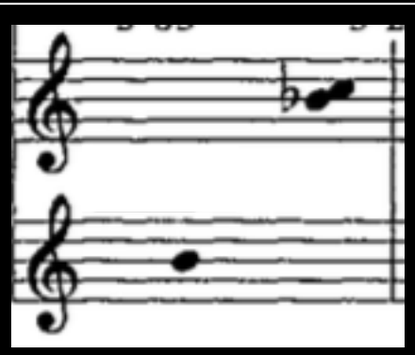
muted jacks

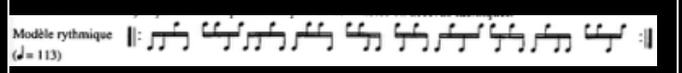



percussive pedal

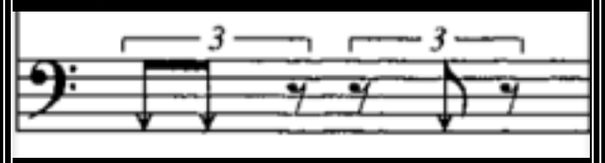
clusters with muted strings



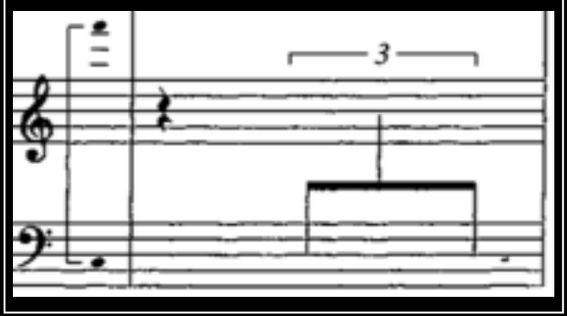




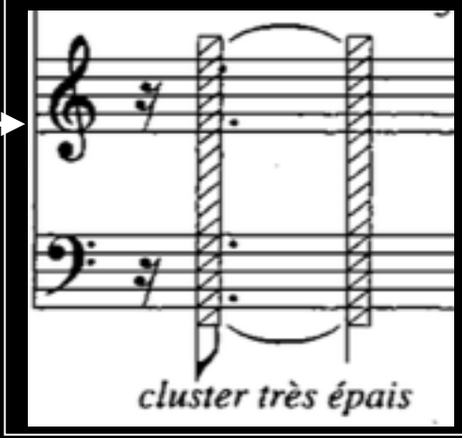

narrow clusters with determinate rhythms and pitch limits




clusters with broad limits



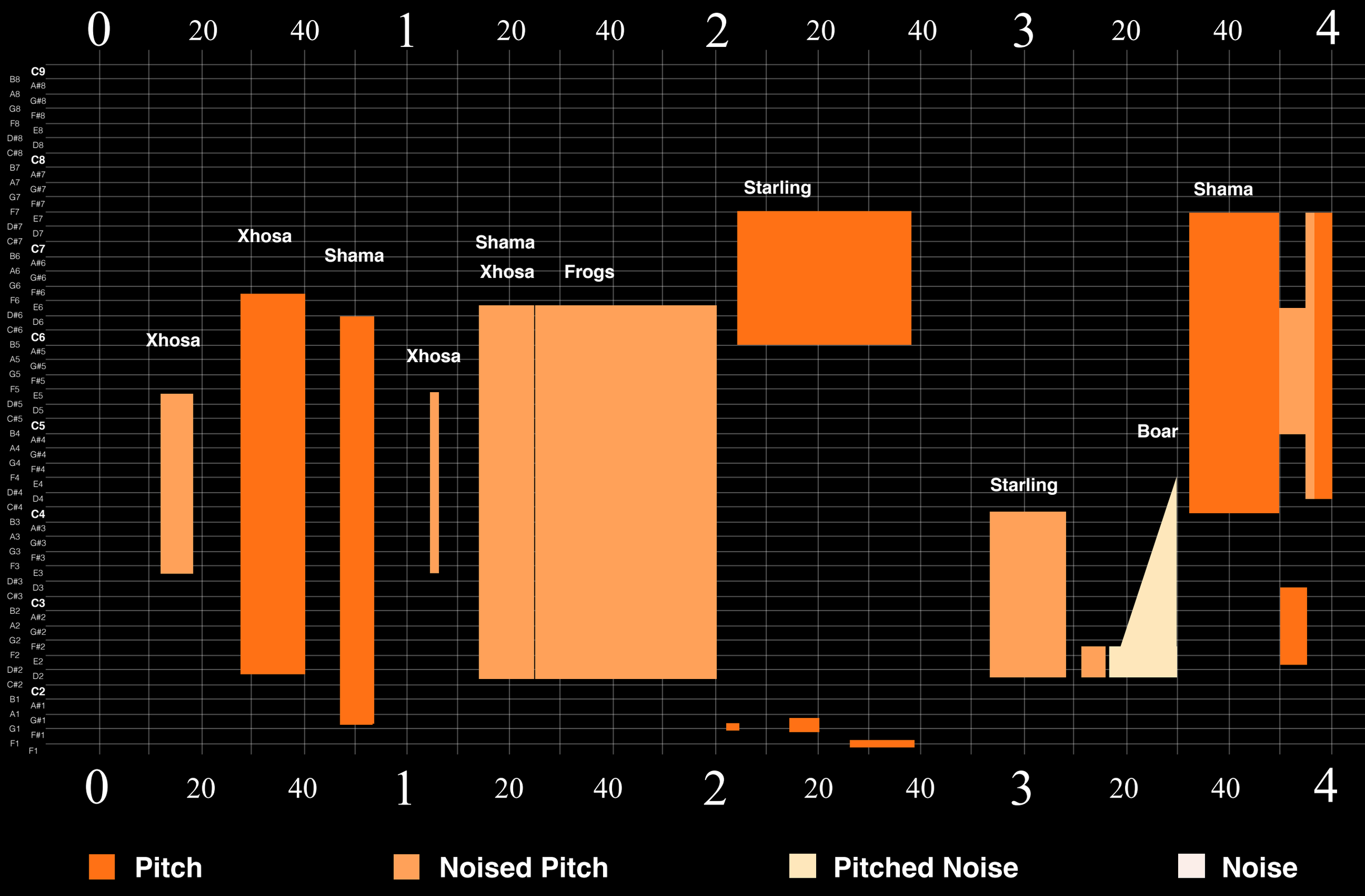

thick, full cluster (forearms)



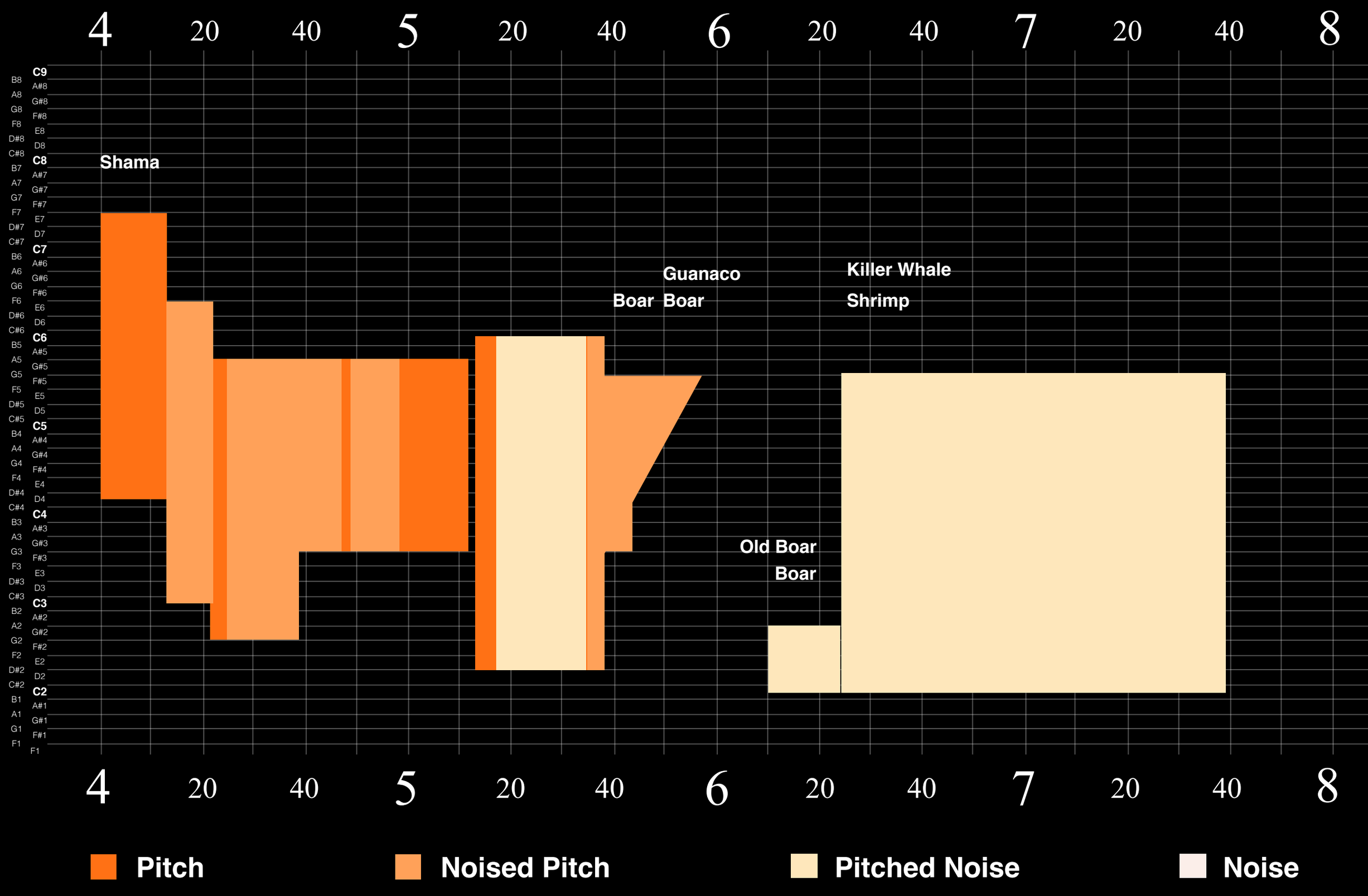

cluster improvisations:
1. adding aggregates
2. subtracting pitches
3. filtering lows
4. filtering highs

| | | | |
|---|---|---|---|
| **Determinate** | **Determinate** | **Indeterminate rhythm** | **Indeterminate rhythm** |
| **Indeterminate rhythm** | **Indeterminate pitch** | **Indeterminate pitch** | **Indeterminate pitch** |
| **Pitch** | **Noised Pitch** | **Indeterminate** | **Indeterminate** |
| | | **Pitched Noise** | **Noise** |

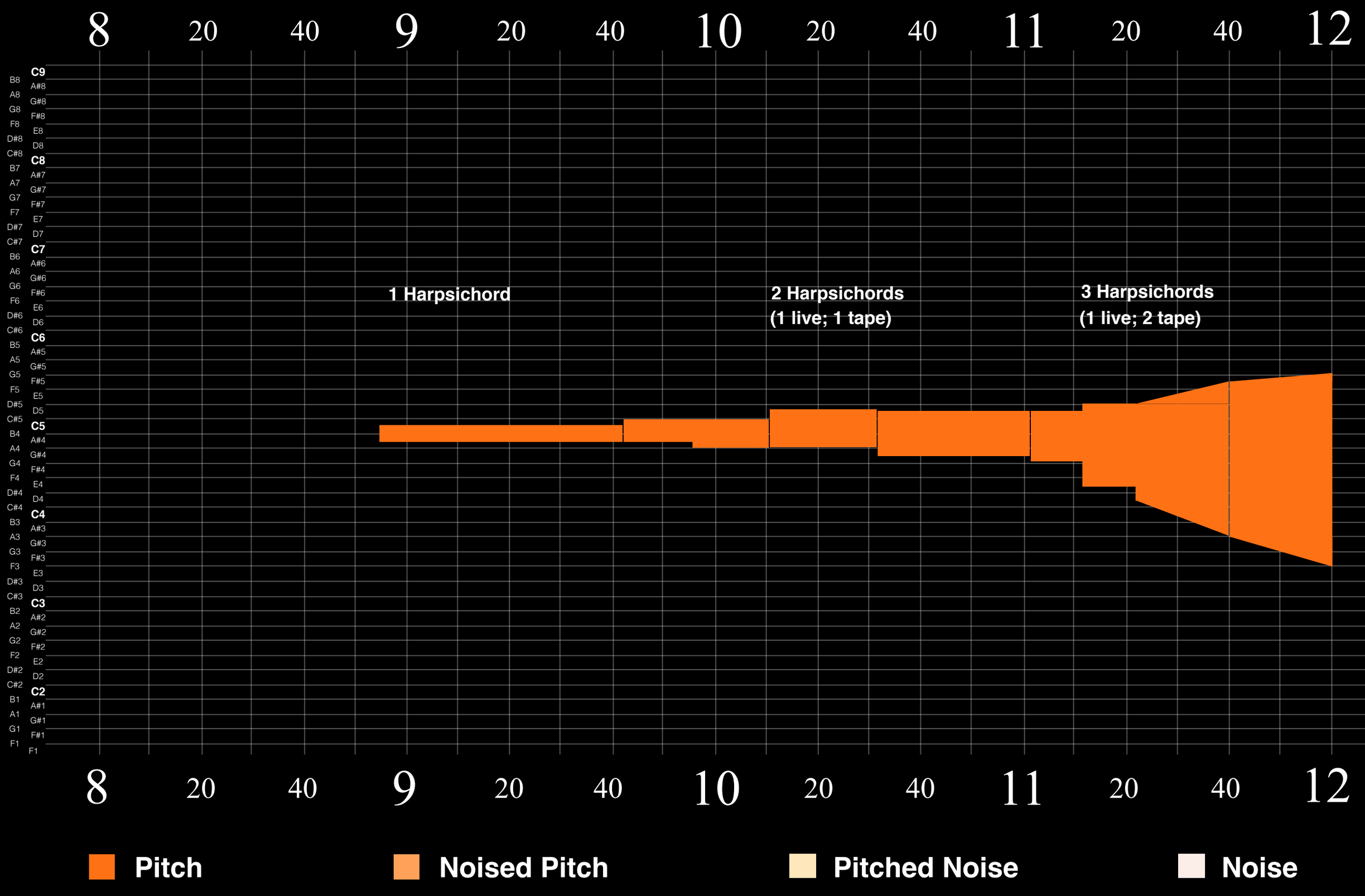
# Harpsichord: pitch regions / sound models



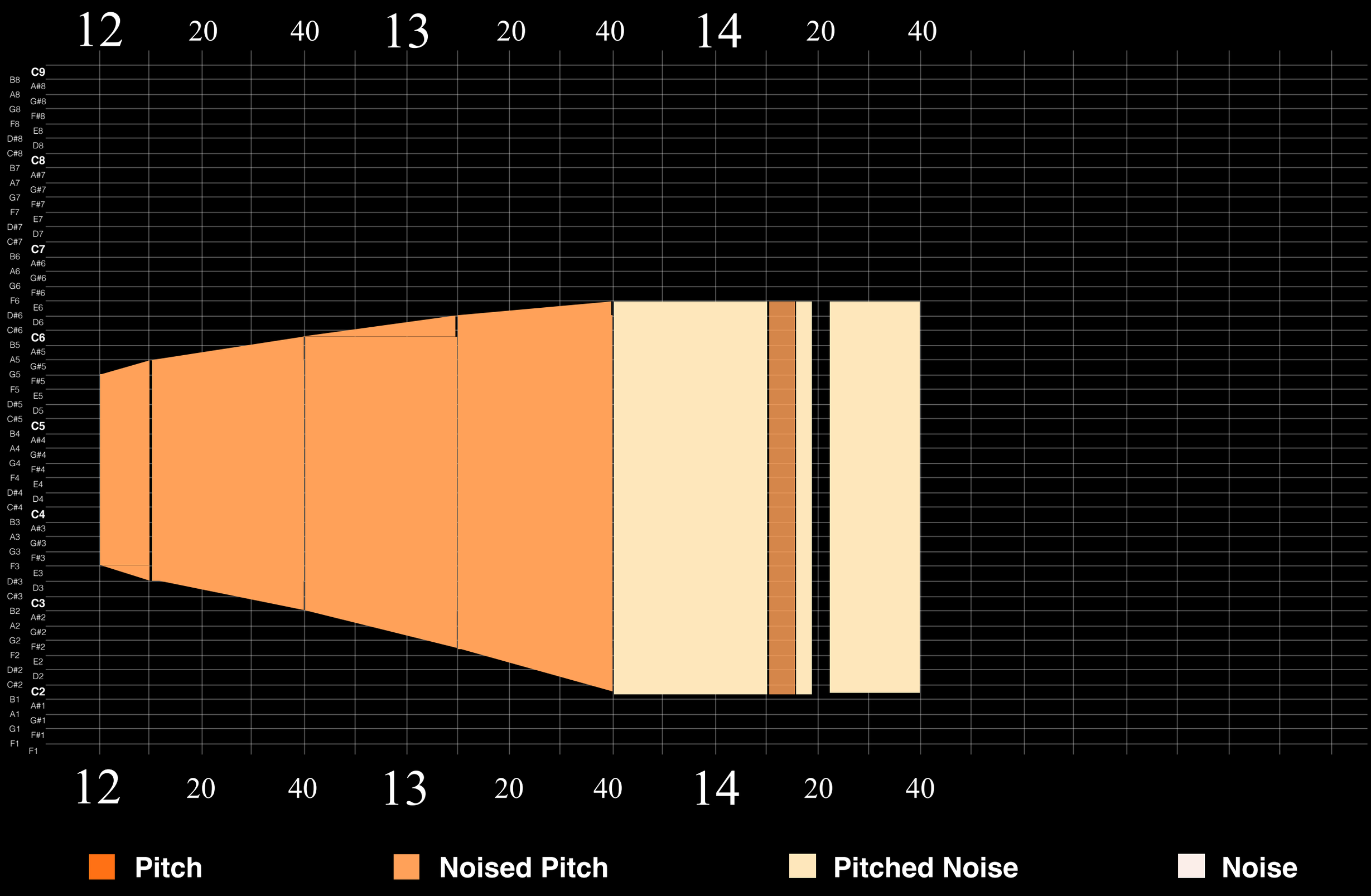
# Harpsichord: pitch regions / sound models



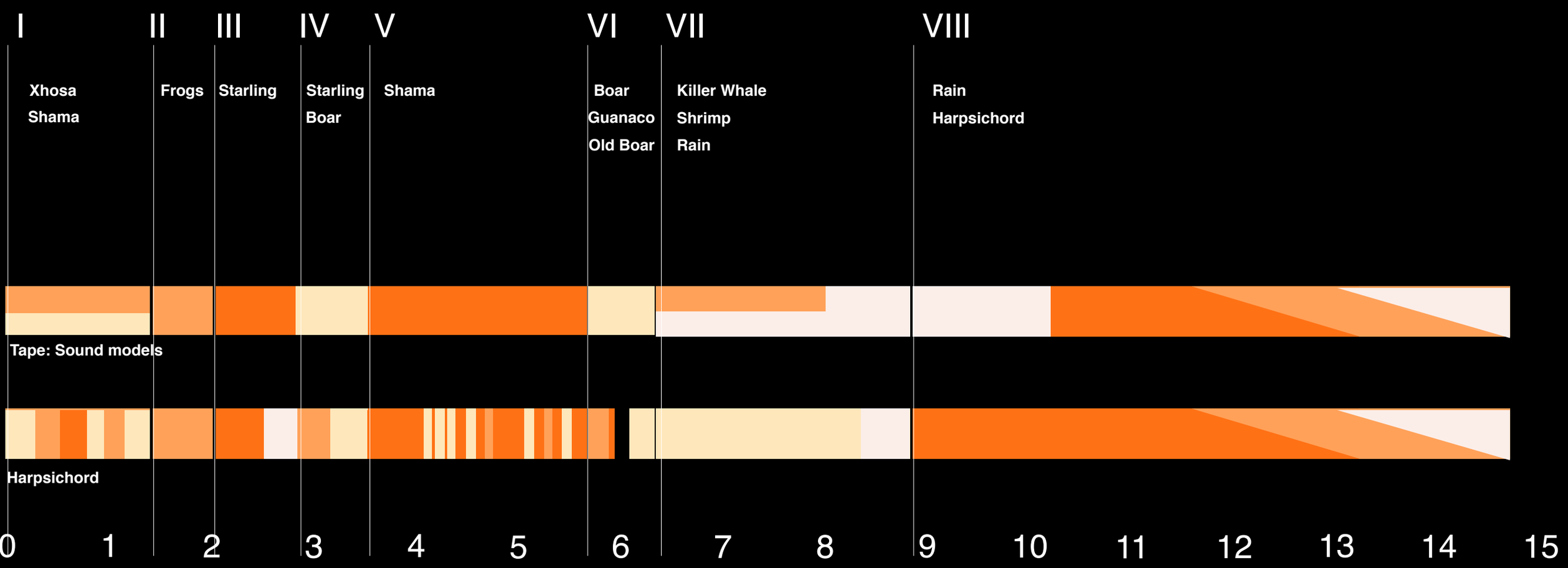
# Harpsichord: pitch regions / sound models

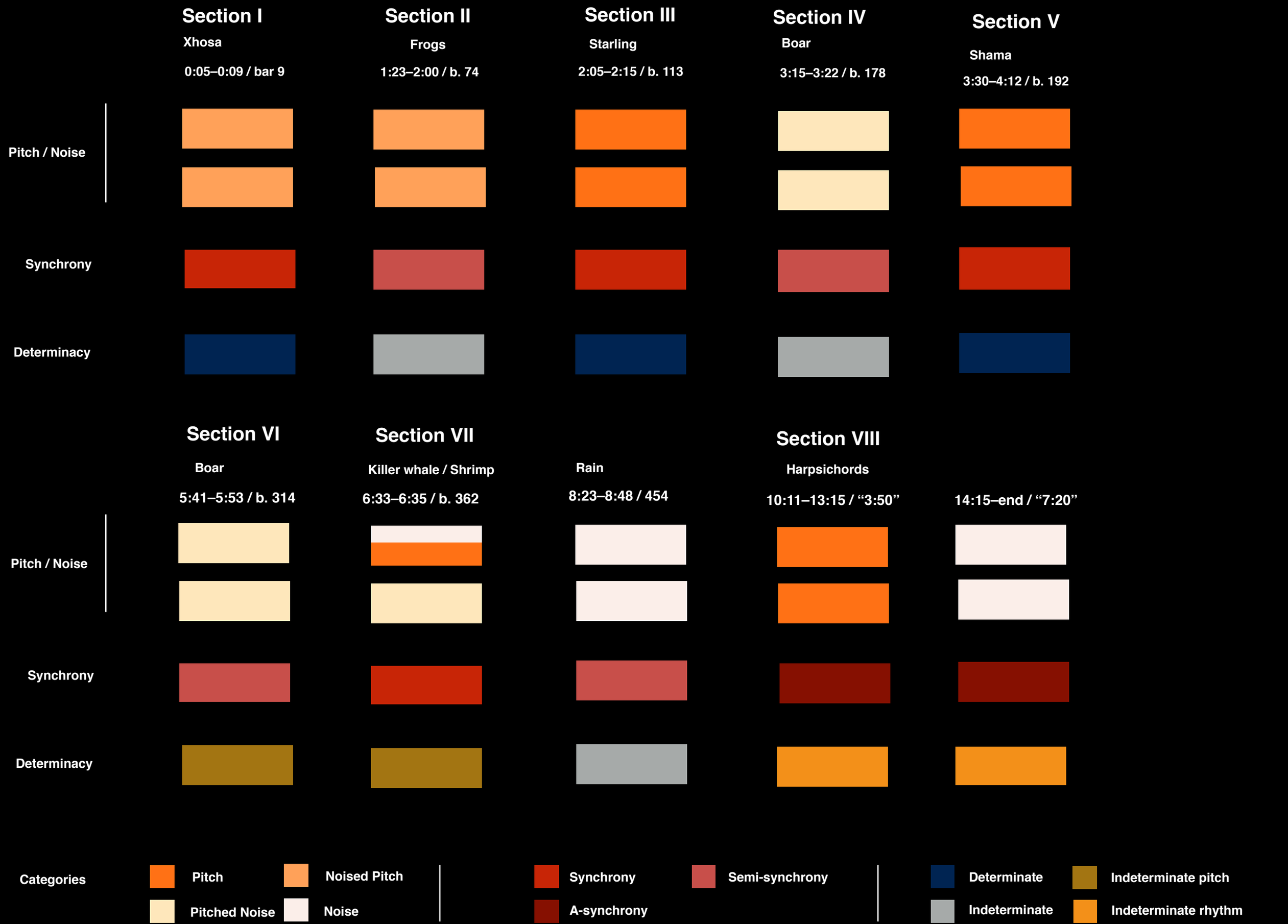


# Harpsichord: pitch regions / sound models



# Korwar: form


I
II
III
IV
V
VI
VII
VIII
Xhosa
Shama
Frogs
Starling
Starling
Boar
Shama
Boar
Guanaco
Old Boar
Killer Whale
Shrimp
Rain
Rain
Harpsichord
Tape: Sound models
Harpsichord
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Pitch
Noised Pitch
Pitched Noise
Noise


Section I
Xhosa
0:05–0:09 / bar 9
Section II
Frogs
1:23–2:00 / b. 74
Section III
Starling
2:05–2:15 / b. 113
Section IV
Boar
3:15–3:22 / b. 178
Section V
Shama
3:30–4:12 / b. 192
Pitch / Noise
Synchrony
Determinacy
Section VI
Boar
5:41–5:53 / b. 314
Section VII
Killer whale / Shrimp
6:33–6:35 / b. 362
Rain
8:23–8:48 / 454
Section VIII
Harpsichords
10:11–13:15 / “3:50”
14:15–end / “7:20”
Pitch / Noise
Synchrony
Determinacy
Categories
Pitch
Noised Pitch
Pitched Noise
Noise
Synchrony
Semi-synchrony
A-synchrony
Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm

## Section I

Xhosa

0:05–0:09 / bar 2

Shama

0:40–0:45 / b. 34

1:13–1:15 / b. 64

## Section II

Frogs

1:23–2:00 / b. 74

## Section III

Starling

2:05–2:15 / b. 113

2:38–2:49 / b. 144

## Section IV

Starling

2:53–3:15

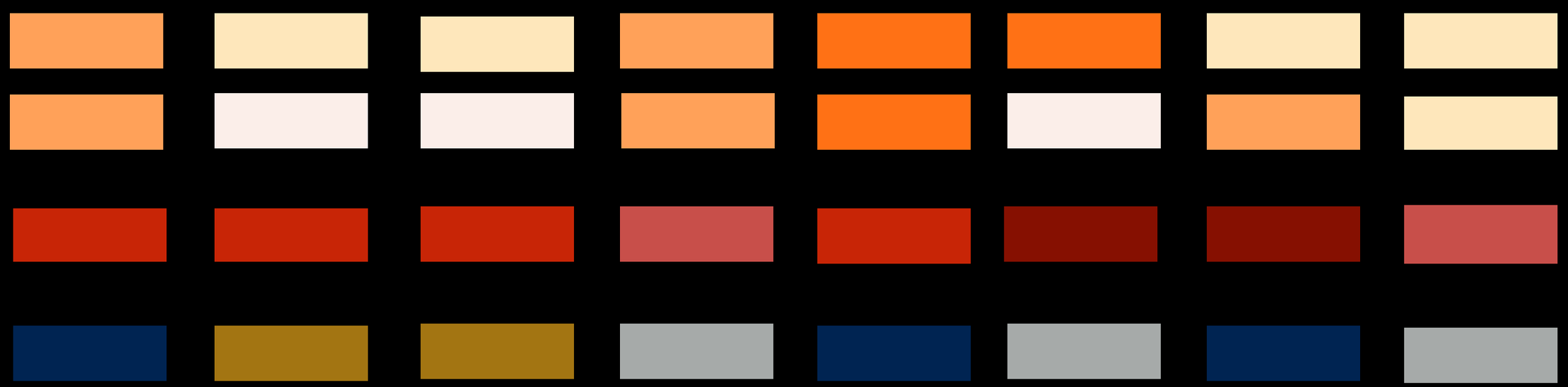
Boar

3:15–3:22 / b. 178

Pitch / Noise

Synchrony

Determinacy



## Section V

Shama

3:30–4:12 / b. 192

4:12–4:20 / b. 230

## Section VI

Boar

5:41–5:53 / b. 314

## Section VII

Old boar/Boar

6:10–6:23 / b. 341

Killer whale / Shrimp

6:33–6:35 / b. 362

6:53–6:58 / b. 380

## Section VIII

Rain

8:23–8:48 / 454

Harpsichords

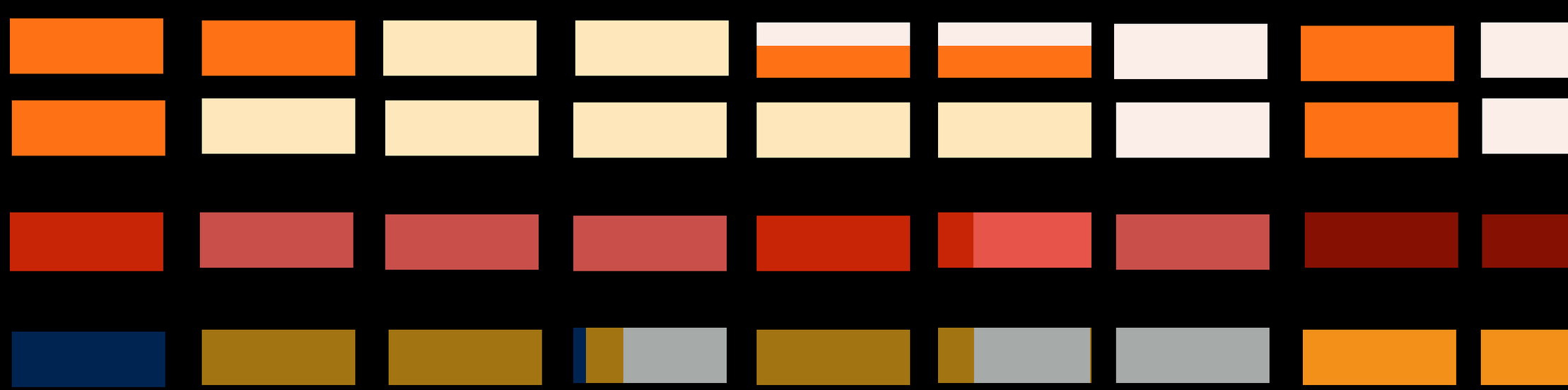
10:11–13:15 / “3:50”

14:15–end / “7:2

Pitch / Noise

Synchrony

Determinacy



Categories

Pitch

Noised Pitch

Pitched Noise

Noise

Synchrony

Semi-synchrony

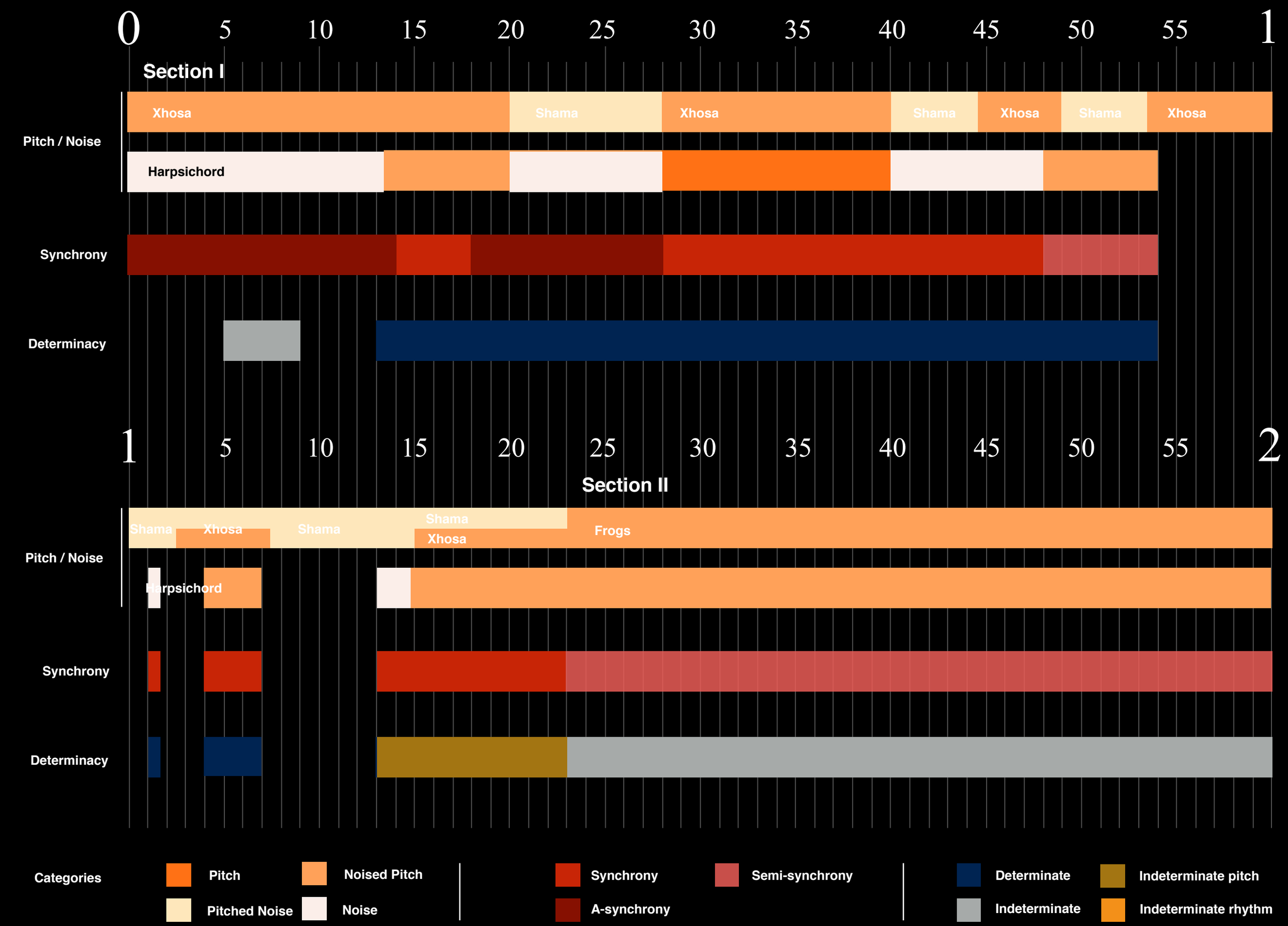
A-synchrony

Determinate

Indeterminate pitch

Indeterminate

Indeterminate rhythm


0
5
10
15
20
25
30
35
40
45
50
55
1
Section I
Pitch / Noise
Xhosa
Shama
Xhosa
Shama
Xhosa
Shama
Xhosa
Harpsichord
Synchrony
Determinacy
1
5
10
15
20
25
30
35
40
45
50
55
2
Section II
Pitch / Noise
Shama
Xhosa
Shama
Shama
Xhosa
Frogs
Harpsichord
Synchrony
Determinacy
Categories
Pitch
Noised Pitch
Pitched Noise
Noise
Synchrony
Semi-synchrony
A-synchrony
Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm

2 5 10 15 20 25 30 35 40 45 50 55 3

**Section III**

**Section IV**

Pitch / Noise

Starling

Harpsichord

(Starling)

Synchrony

Determinacy

3 5 10 15 20 25 30 35 40 45 50 55 4

**Section V**

Pitch / Noise

Sterling

Boar

Shama

Synchrony

Determinacy

Categories

Pitch

Noised Pitch

Pitched Noise

Noise

Synchrony

Semi-synchrony

A-synchrony

Determinate

Indeterminate pitch

Indeterminate

Indeterminate rhythm

4 5 10 15 20 25 30 35 40 45 50 55 5

Pitch / Noise

Shama

(Shama)

Synchrony

Determinacy

5 5 10 15 20 25 30 35 40 45 50 55 6

Section VI

Pitch / Noise

(Shama)

Boar

Guanaco
Boar

Synchrony

Determinacy

Categories

Pitch

Noised Pitch

Pitched Noise

Noise

Synchrony

Semi-synchrony

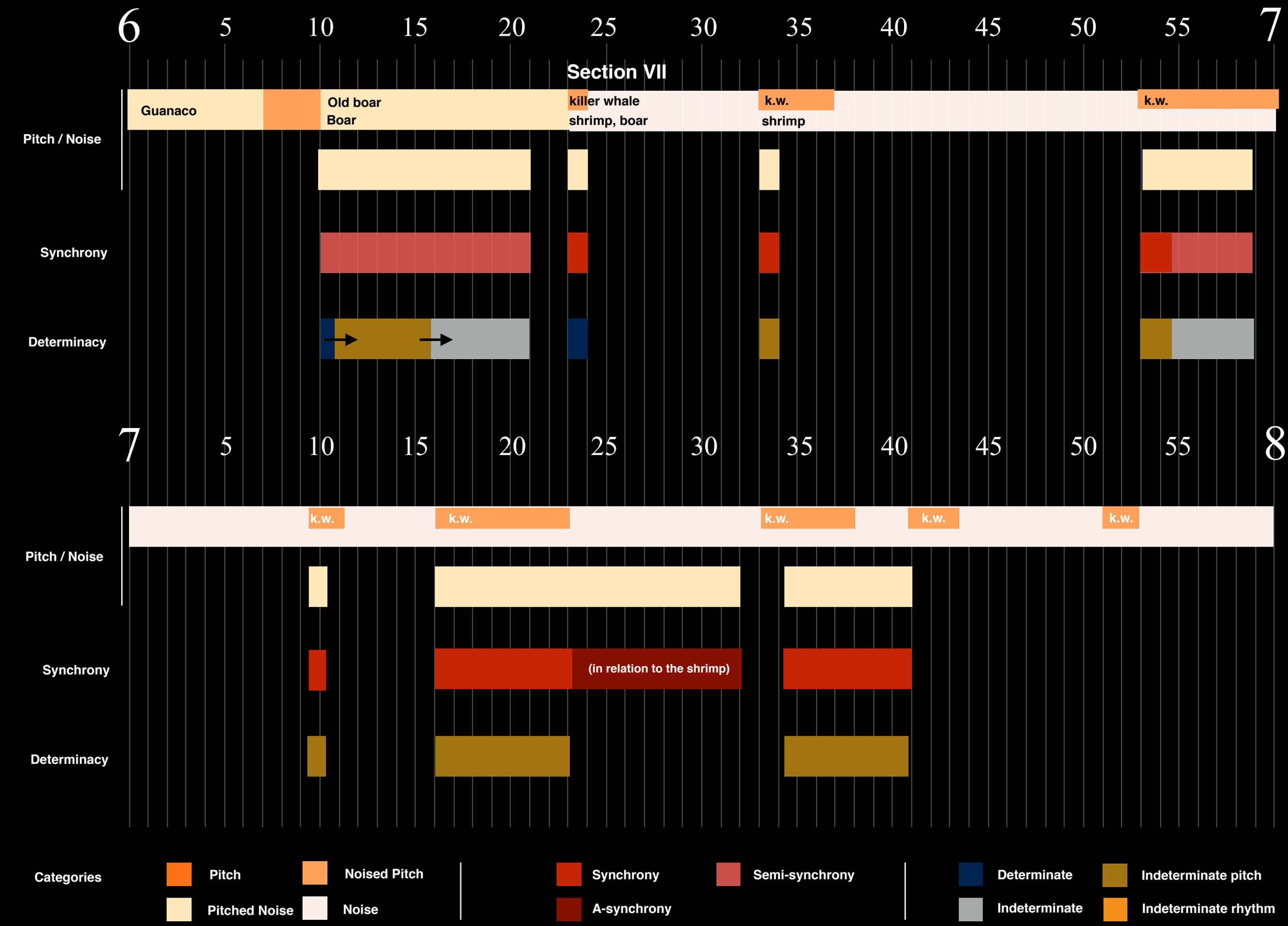
A-synchrony

Determinate

Indeterminate pitch

Indeterminate

Indeterminate rhythm


6
5
10
15
20
25
30
35
40
45
50
55
7
Section VII
Pitch / Noise
Guanaco
Old boar
Boar
killer whale
shrimp, boar
k.w.
shrimp
k.w.
Synchrony
Determinacy
7
5
10
15
20
25
30
35
40
45
50
55
8
Pitch / Noise
k.w.
k.w.
k.w.
k.w.
k.w.
Synchrony
(in relation to the shrimp)
Determinacy
Categories
Pitch
Noised Pitch
Pitched Noise
Noise
Synchrony
Semi-synchrony
A-synchrony
Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm

8 5 10 15 20 25 30 35 40 45 50 55 9

Section VIII

Pitch / Noise

k.w. rain
shrimp

rain

Synchrony

Determinacy

9 5 10 15 20 25 30 35 40 45 50 55 10

Pitch / Noise

rhythmically indeterminate model

Synchrony

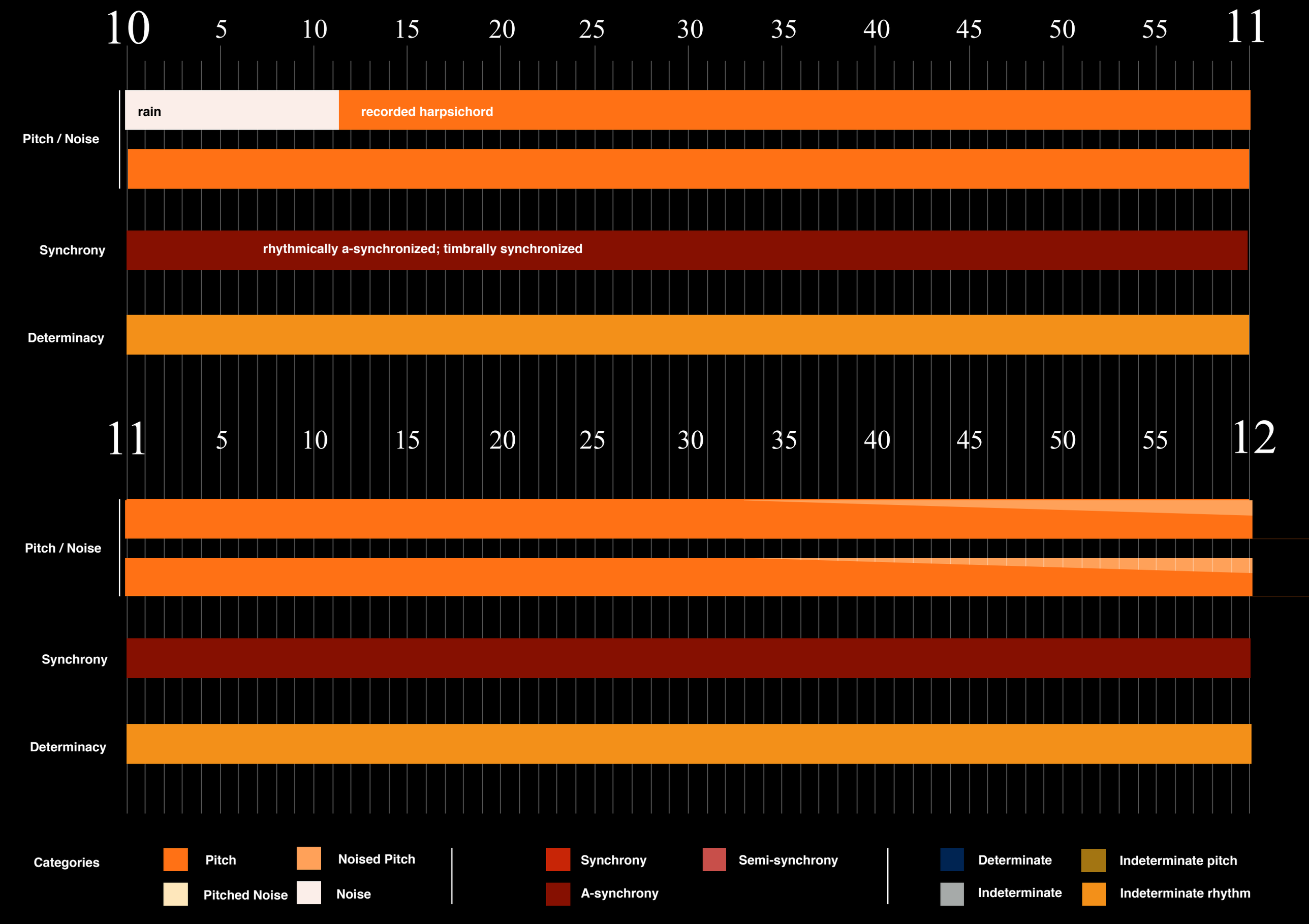
Determinacy

Categories

Pitch
Noised Pitch
Pitched Noise
Noise

Synchrony
Semi-synchrony
A-synchrony

Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm


10
5
10
15
20
25
30
35
40
45
50
55
11
Pitch / Noise
rain
recorded harpsichord
Synchrony
rhythmically a-synchronized; timbrally synchronized
Determinacy
11
5
10
15
20
25
30
35
40
45
50
55
12
Pitch / Noise
Synchrony
Determinacy
Categories
Pitch
Noised Pitch
Pitched Noise
Noise
Synchrony
Semi-synchrony
A-synchrony
Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm

12 5 10 15 20 25 30 35 40 45 50 55 13

Pitch / Noise

Synchrony

rhythmically a-synchronized; timbrally synchronized

Determinacy

13 5 10 15 20 25 30 35 40 45 50 55 14

Pitch / Noise

Synchrony

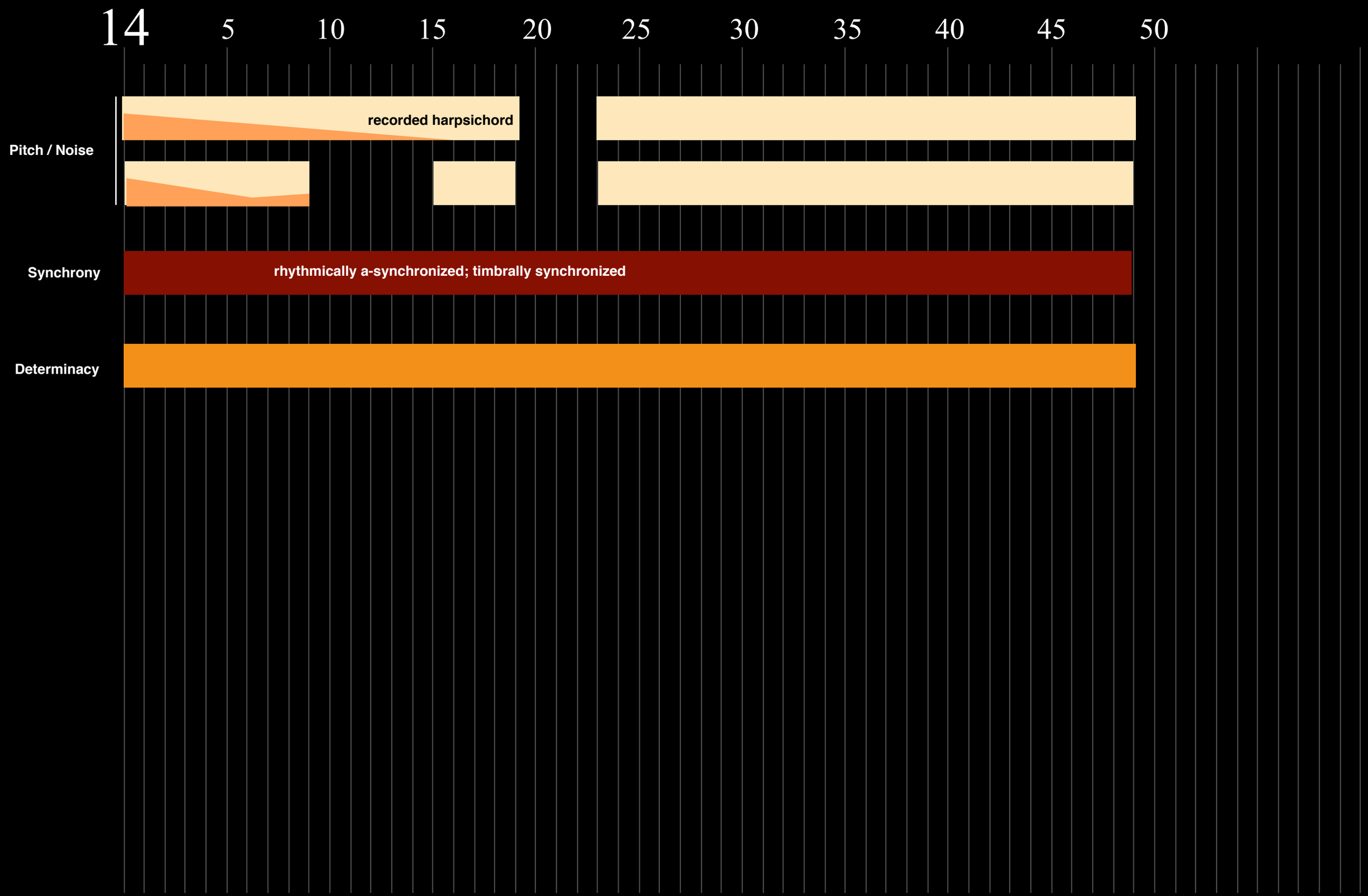
Determinacy

Categories

Pitch
Noised Pitch
Pitched Noise
Noise

Synchrony
Semi-synchrony
A-synchrony

Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm


5
10
15
20
25
30
35
40
45
50
Pitch / Noise
recorded harpsichord
Synchrony
rhythmically a-synchronized; timbrally synchronized
Determinacy
Categories
Pitch
Noised Pitch
Pitched Noise
Noise
Synchrony
Semi-synchrony
A-synchrony
Determinate
Indeterminate pitch
Indeterminate
Indeterminate rhythm