

# Homotopy

pour percussions, captation gestuelle et électronique  
temps réel

José Miguel Fernández 2017



## ***Besoins techniques***

### **Ordinateurs :**

- 1 ordinateur MacBook Pro 2,6 GHz Intel Core i7 avec les logiciels MaxMSP 7 et SuperCollider 3.7.
- 1 carte audio avec 8 entrées et sorties (par exemple RME UFX)

### **Son :**

- 8 hauts-parleurs autour du public.
- 7 microphones statiques directionnels (Neumann KM-184, voir la disposition dans "Schéma technique").

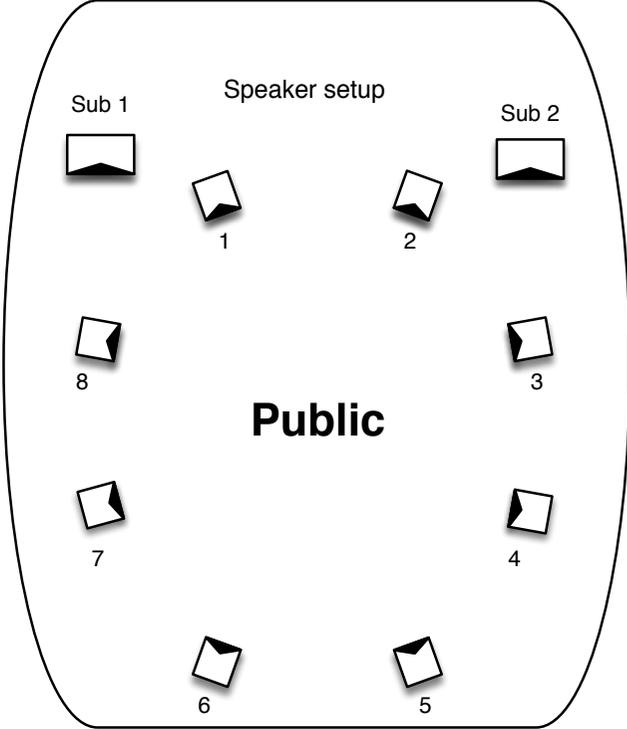
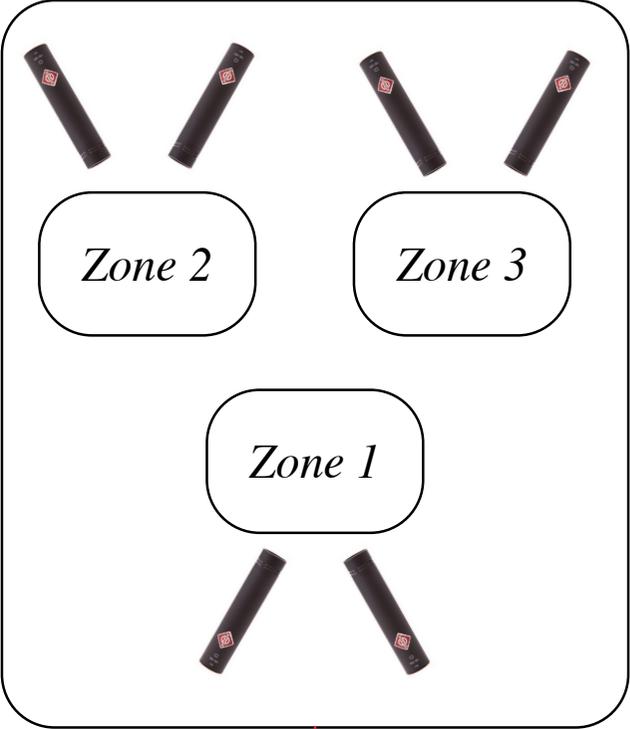
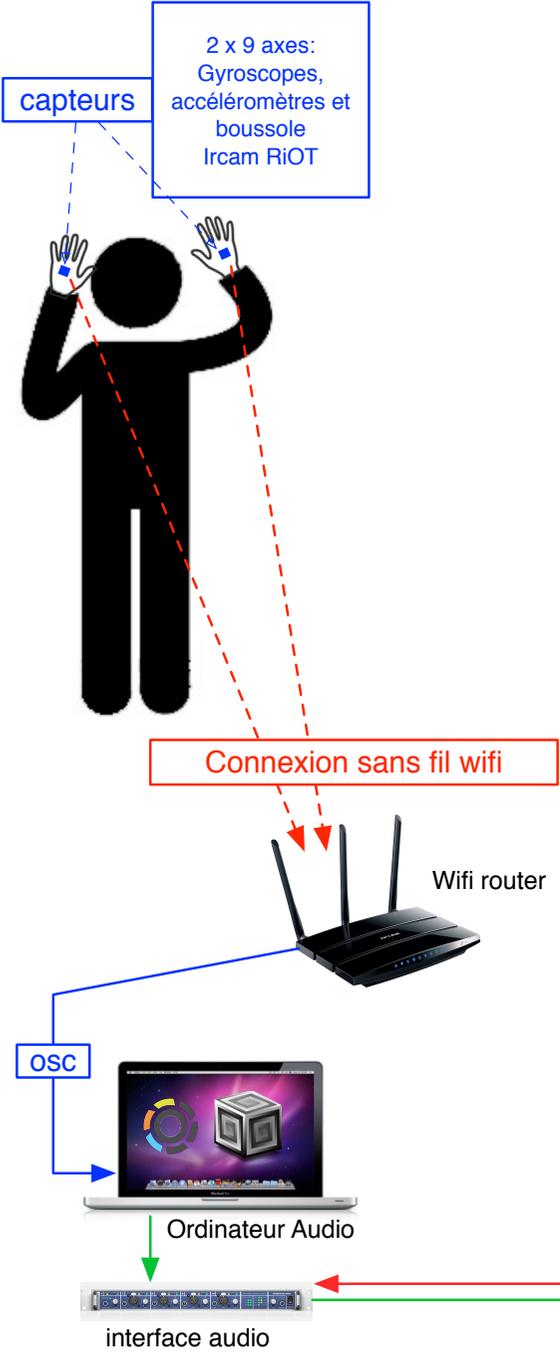
### **Capture de gestes :**

#### **-Gants :**

- 2 capteurs RiOT à 9 axes (3 axes d'accéléromètre, 3 axes de gyroscope et 3 axes de boussole)

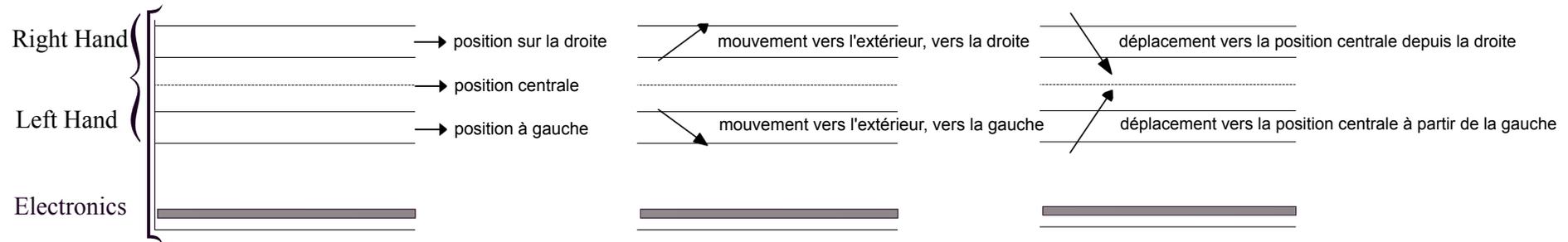
# Schéma technique

# Homotopy

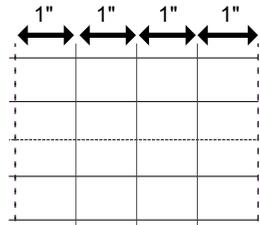


# Instructions :

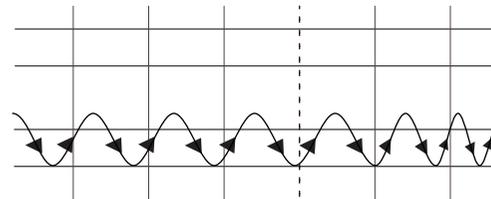
## Position des mains en relation au corps de l'interprète



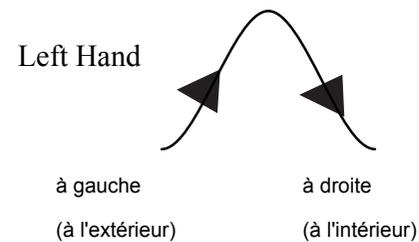
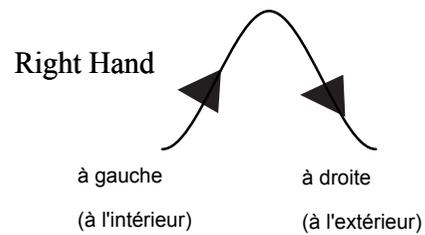
## Division du temps, chaque case correspond à 1 seconde



## Mouvement de la main gauche oscillant dans la position de la main gauche avec mouvement d'inclinaison de la main



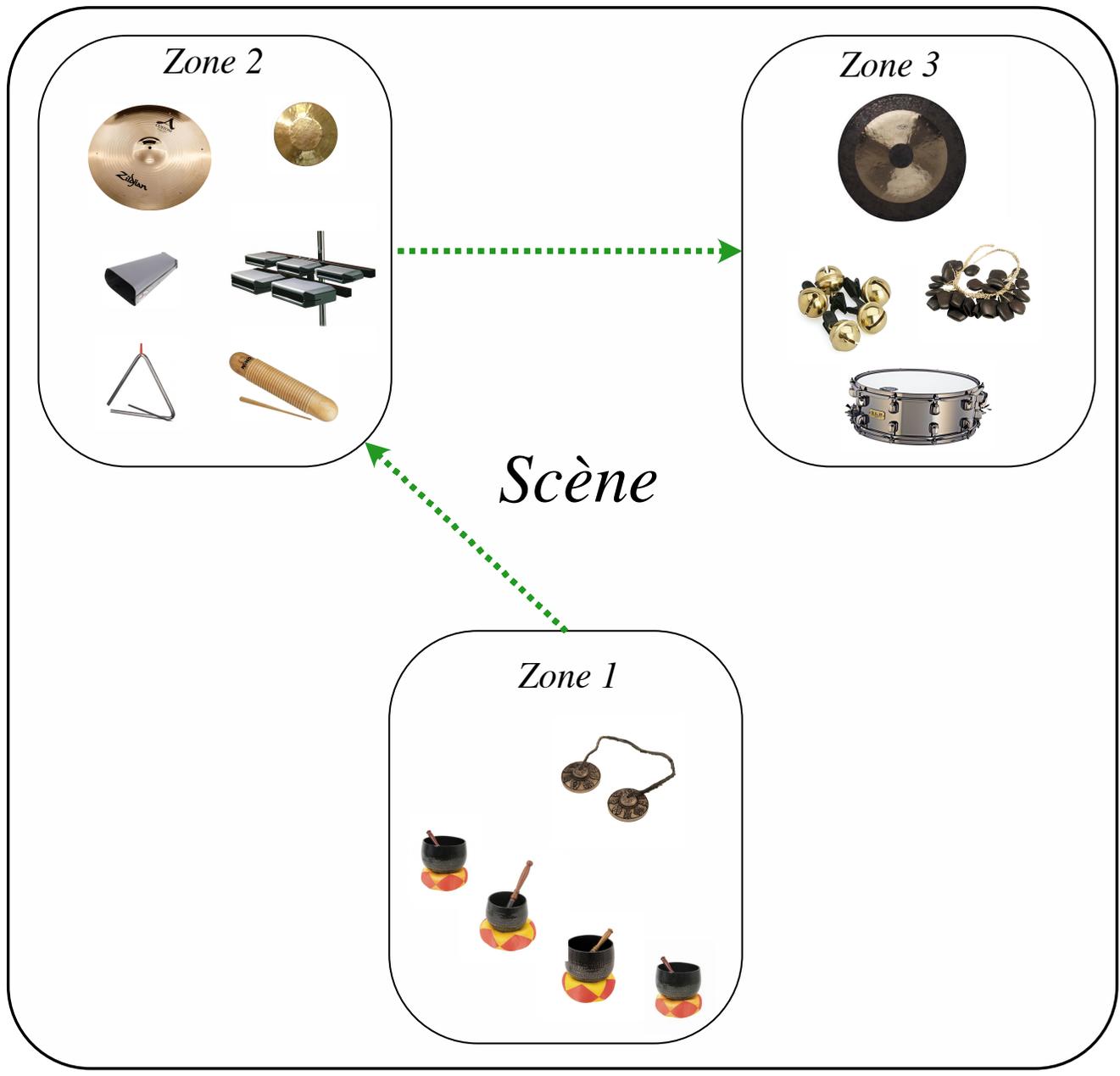
## Inclinaison de la main vers l'intérieur et vers l'extérieur



## Position des mains

	PLAT : paume de la main vers le bas ; doigts joints tournés vers l'avant.
	REVERSE : paume de la main vers le haut, doigts joints vers l'avant.
	COUPANT : main perpendiculaire au sol, doigts joints vers l'avant, pouce vers le haut ; l'angle du bras au coude peut être déplacé de plus ou moins 90 degrés.
	VERS L'EXTERIEUR : main perpendiculaire au sol, doigts joints vers l'avant ; pouce vers le bas.
	POING : poing fermé, vertical, pouce vers le haut.
	LA PIERRE : poing fermé, horizontal, le pouce tourné vers l'intérieur.

# Zones, instruments



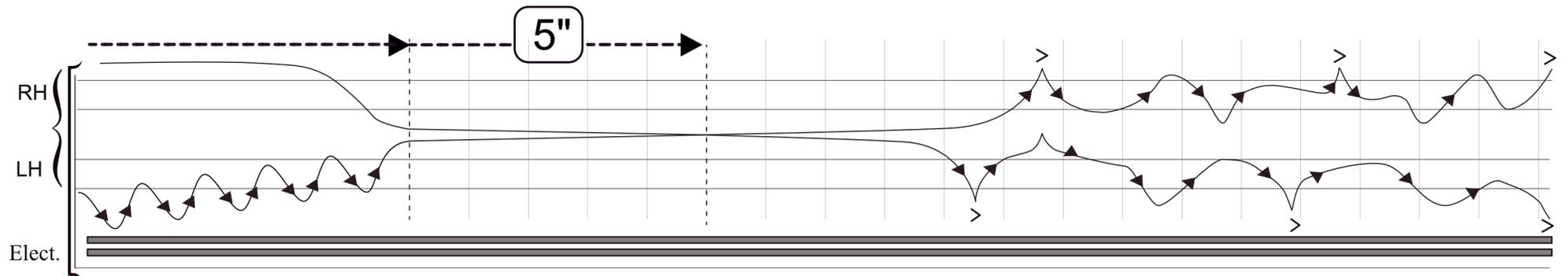
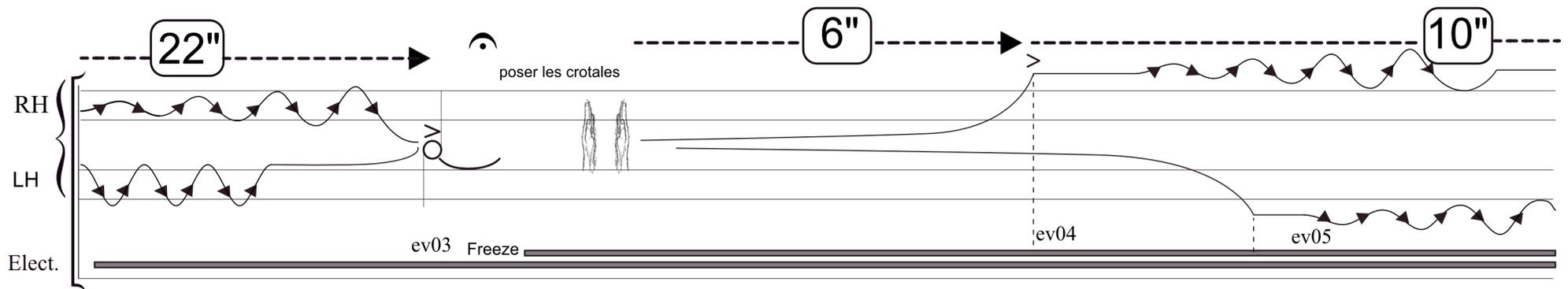
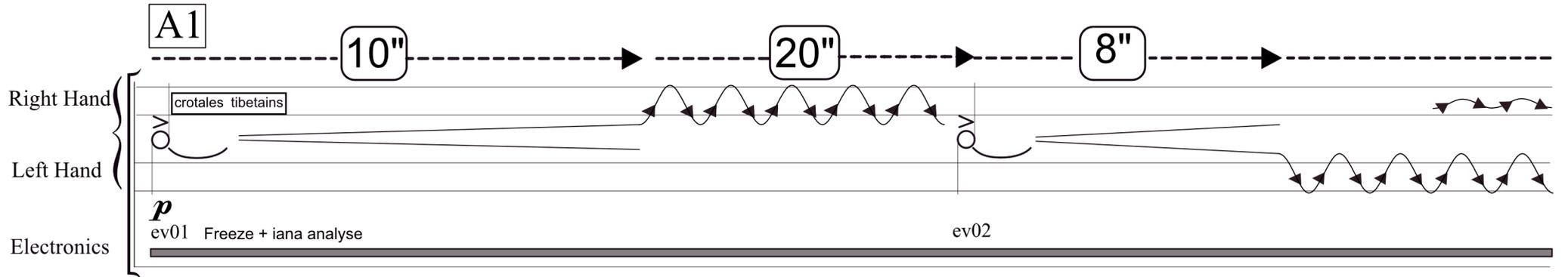


# Homotopy

à Thierry Miroglio

José Miguel Fernández

*Zone 1*



RH

LH

Elect.

bols tibetains

A2

f

ev06

RH

LH

Elect.

rotations latérales

Avec Mouvement vertical

ev07

ev08

L.H.

RH

LH

Elect.

R.H.

A3

ev09

ev10

RH

LH

Elect.

ev11

ev12

ev13

ev14

**A4**

RH

LH

Elect.

ev15

ev16

ev17

18 19

ev20

21 ev22

23 24

ev25

26 27 28 29 ev30

**A5**

RH

LH

Elect.

ev31

32 33 34

ev35 36

ev37

38 39

40

ev41

rec mov B3

A6

Musical score for section A6, measures 1-10. The score is written for three staves: Right Hand (RH), Left Hand (LH), and Electronic (Elect.). The RH part features a complex rhythmic pattern with triplets and slurs. The LH part provides a bass line with notes and slurs. The Elect. part includes dynamic markings and performance instructions: *p*, *ev42*, *play mov B3*, and *fade out play mov B3*.

Musical score for section A6, measures 11-20. The score is written for three staves: Right Hand (RH), Left Hand (LH), and Electronic (Elect.). The RH part continues with complex rhythmic patterns, including triplets and slurs. The LH part provides a bass line with notes and slurs. The Elect. part is a control line.

A7

Musical score for section A7, measures 21-30. The score is written for three staves: Right Hand (RH), Left Hand (LH), and Electronic (Elect.). The RH part features complex rhythmic patterns with triplets and slurs. The LH part provides a bass line with notes and slurs. The Elect. part includes a dynamic marking *mf* and circled notes with accents (>) in the RH part.

RH

LH

Elect.

3

3

3

accel.

RH

LH

Elect.

x 3 fois

20"

tam-tam

Déplacement vers Zone 4

ev43

continue electronics

Déplacement vers Zone 2

[Zone 2]

RH

LH

Elect.

ev44

# Zone 2

♩ = 72

triangle  
cymbale cloutée  
guiro  
wood-blocks  
cencerro

*f*

Z2-1

2-G

3

4-G

5

6-G

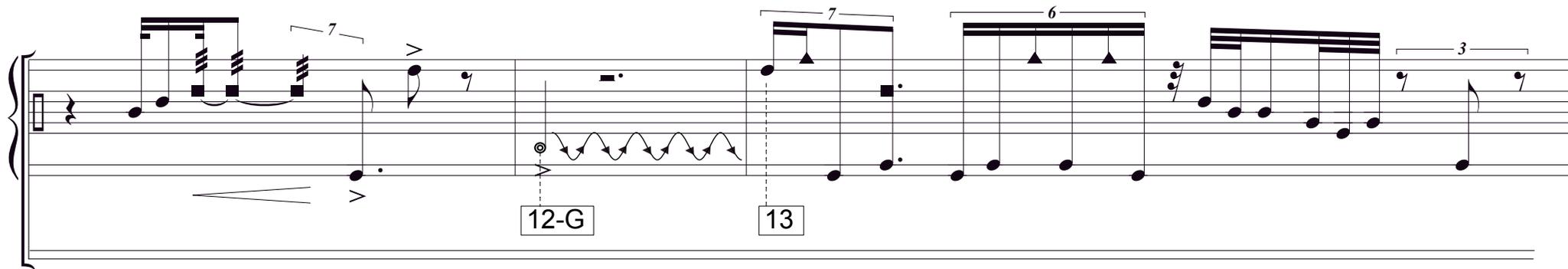
7

8-G

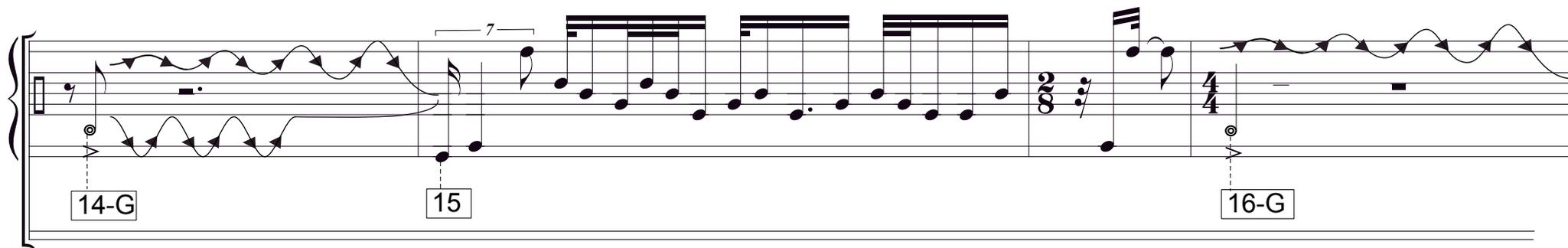
9

10-G

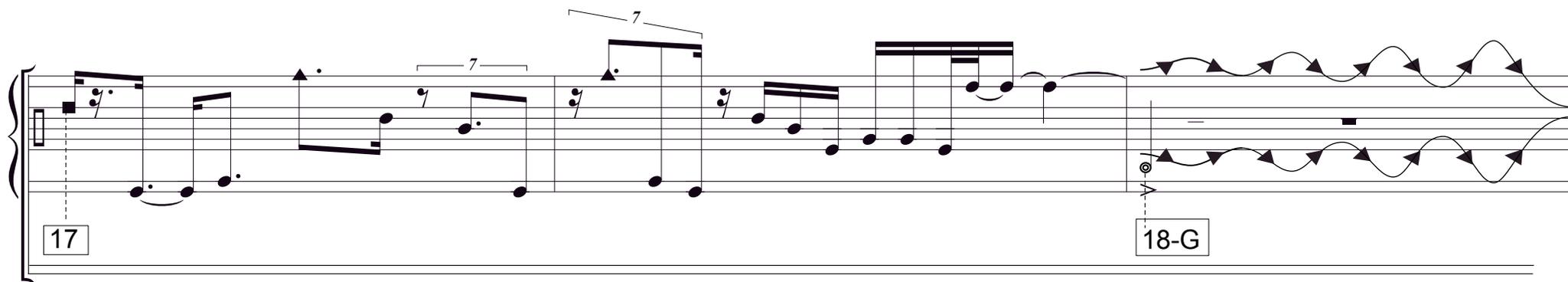
11



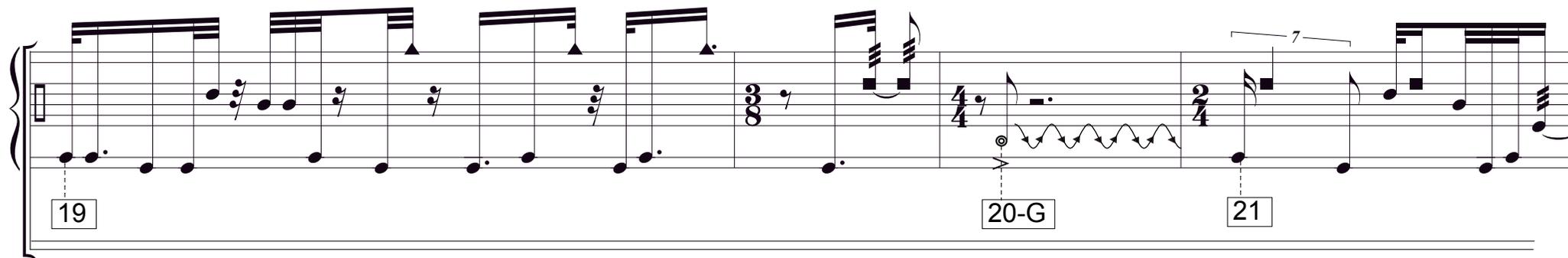
Musical score system 1, measures 12-13. The system consists of two staves. The upper staff contains a melodic line with a 7-measure slur over measures 12 and 13, and a 6-measure slur over measures 13 and 14. The lower staff contains a bass line with a circled note in measure 12, indicated by a dashed line and the label '12-G'. A wavy line with arrows indicates a vibrato effect starting in measure 12. A double bar line is present at the end of measure 13.



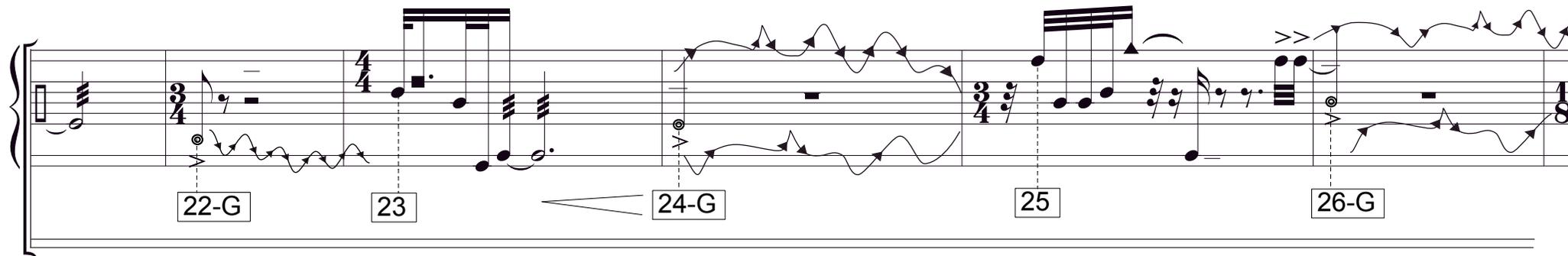
Musical score system 2, measures 14-16. The system consists of two staves. The upper staff contains a melodic line with a 7-measure slur over measures 14 and 15, and a 4-measure slur over measures 16 and 17. The lower staff contains a bass line with a circled note in measure 14, indicated by a dashed line and the label '14-G', and another circled note in measure 16, indicated by a dashed line and the label '16-G'. A wavy line with arrows indicates a vibrato effect starting in measure 14. A double bar line is present at the end of measure 16.



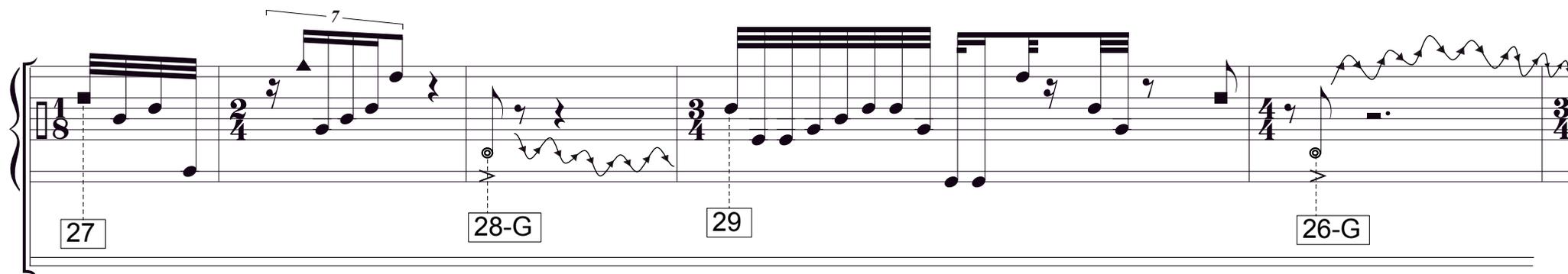
Musical score system 3, measures 17-18. The system consists of two staves. The upper staff contains a melodic line with a 7-measure slur over measures 17 and 18. The lower staff contains a bass line with a circled note in measure 17, indicated by a dashed line and the label '17', and another circled note in measure 18, indicated by a dashed line and the label '18-G'. A wavy line with arrows indicates a vibrato effect starting in measure 17. A double bar line is present at the end of measure 18.



Musical score system 1, measures 19-21. Measure 19 starts with a treble clef and a key signature of one flat. Measure 20 changes to 4/4 time and includes a circled 'G' with a wavy line. Measure 21 changes to 2/4 time and includes a circled 'G' with a wavy line and a 7-measure slur above the staff.



Musical score system 2, measures 22-26. Measure 22 has a circled 'G' with a wavy line. Measure 23 has a treble clef and a key signature of one flat. Measure 24 has a circled 'G' with a wavy line and a wedge-shaped dynamic marking. Measure 25 has a treble clef and a key signature of one flat. Measure 26 has a circled 'G' with a wavy line and an accent (>) above the staff.



Musical score system 3, measures 27-30. Measure 27 has a treble clef and a key signature of one flat. Measure 28 has a circled 'G' with a wavy line. Measure 29 has a treble clef and a key signature of one flat. Measure 30 has a circled 'G' with a wavy line and a 7-measure slur above the staff.

31 32-G 33

34-G 35 36-G 37

38-G 39 40-G 41 42-G 43 44-G

Musical score for guitar, showing a sequence of notes across 13 measures. The notes are indicated by fret numbers in boxes below the staff: 45, 46-G, 47, 48-G, 49, 50-G, 51, 52-G, 53, 54-G, 55, 56-G, 57. The score includes various musical notations such as slurs, accents (>), and fingering indications (3, 5, 7). The notes are primarily eighth and sixteenth notes, often beamed together in groups.

Handing diagram for guitar, showing the movement of the Right Hand (RH), Left Hand (LH), and Electric (Elect.) parts across the same sequence of measures. The RH and LH parts are represented by arrows indicating finger positions and movements on the strings. The Elect. part is represented by a series of horizontal bars indicating the fret positions for each note. Vertical dashed lines mark the beginning of each measure.

déplacement vers Zone 4

This system shows the initial musical notation. The RH staff features a melodic line with arrows indicating movement, starting from a 'tam-tam' and moving towards a 'métal' (metal) sound. The LH staff includes a 'tam-tam' and a 'ff' (fortissimo) dynamic marking. The Elect. staff shows a dense, rhythmic accompaniment. A legend on the right identifies the sounds: 'grelot métal', 'caisse claire', 'grelot bois', and 'tam-tam'.

This system is marked with a 4/4 time signature and 'mf' (mezzo-forte) dynamics. It includes a 'Z3-1' box, a '6' (sextuplet), and a '3' (triplet). The RH staff shows a melodic line with accents and slurs. The LH staff has a rhythmic accompaniment with a '3' (triplet). The Elect. staff shows a dense, rhythmic accompaniment.

This system continues the musical notation with a '4' box, a '3' (triplet), a '5' box, and a '6' box. The RH staff shows a melodic line with accents and slurs. The LH staff has a rhythmic accompaniment with a '3' (triplet). The Elect. staff shows a dense, rhythmic accompaniment.

RH

LH

7

8

RH

LH

9

10

11

12

RH

LH

13

14

15

16

RH

LH

17

18

RH  
LH

19 20

3 6

RH  
LH

21 22

3 3 3 3

RH  
LH

23 24

5 5 5 5

RH  
LH

25 26

RH

LH

rouler très serré

*f*

25

RH

LH

Elect.

25-2

RH

LH

25-3

25-4

RH

LH

grelot métal

mouvement rotatif

*ff*

26

27

RH  
LH

baguettes bois

rouler très serré

*pp* *ffff*

28

RH  
LH

métal

subito

tam-tam

glissando

*f*

29

30

RH  
LH

31

