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# CONTRAINDRE

KTToeplitz

**CONTRAINdre** est une partition pour Theremin solo

ou plutôt pour un thereministe jouant seul de deux Theremins, dont le son est modifié par un ordinateur, véritable extension des instruments.  
Un second musicien s'occupe de la diffusion spatiale de la musique

**CONTRAINdre** a été composé pour le spectacle chorégraphique du même nom (chorégraphie Myriam Gourfink)

**CONTRAINdre** a été créé au Centre Georges Pompidou en février 2004

Les interprètes étaient: Laurent Dailleau, Theremins; Carole Garriga et Cindy Van Acker, danse; Kasper T Toeplitz, spatialisation

**CONTRAINdre** est une commande d'État

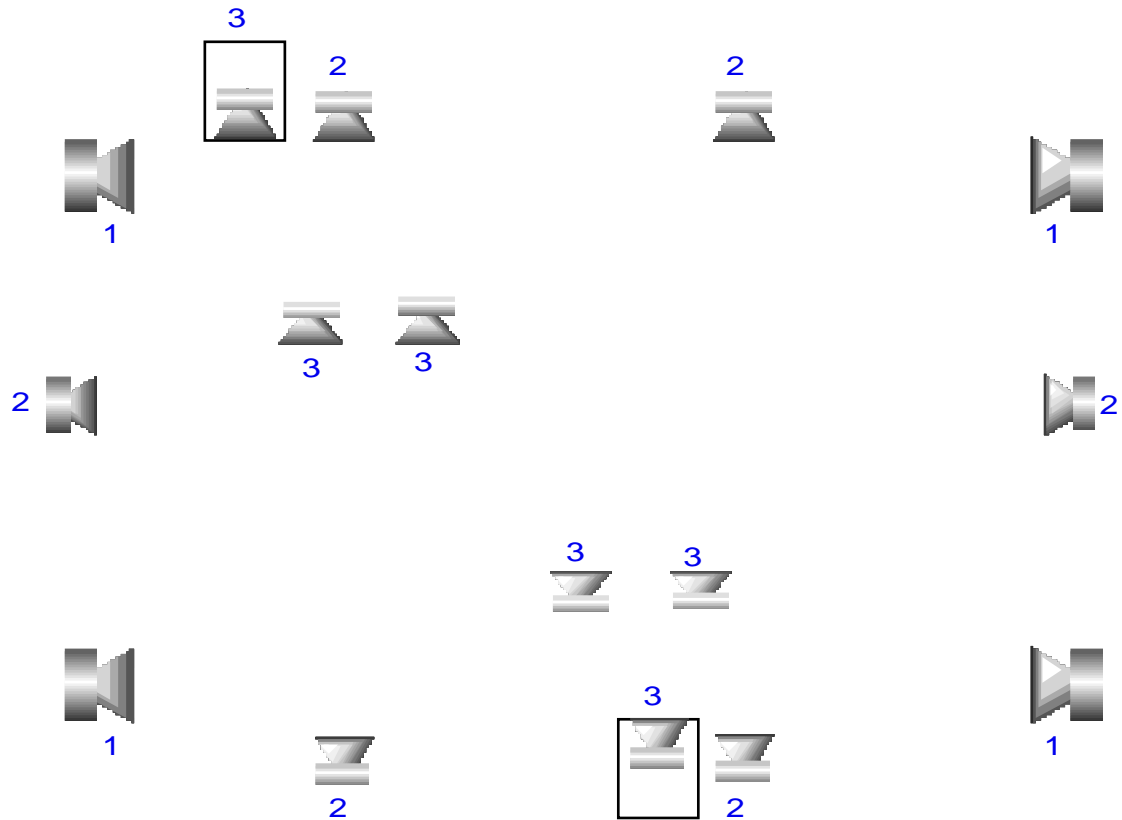
**CONTRAINdre** dure exactement 60 minutes

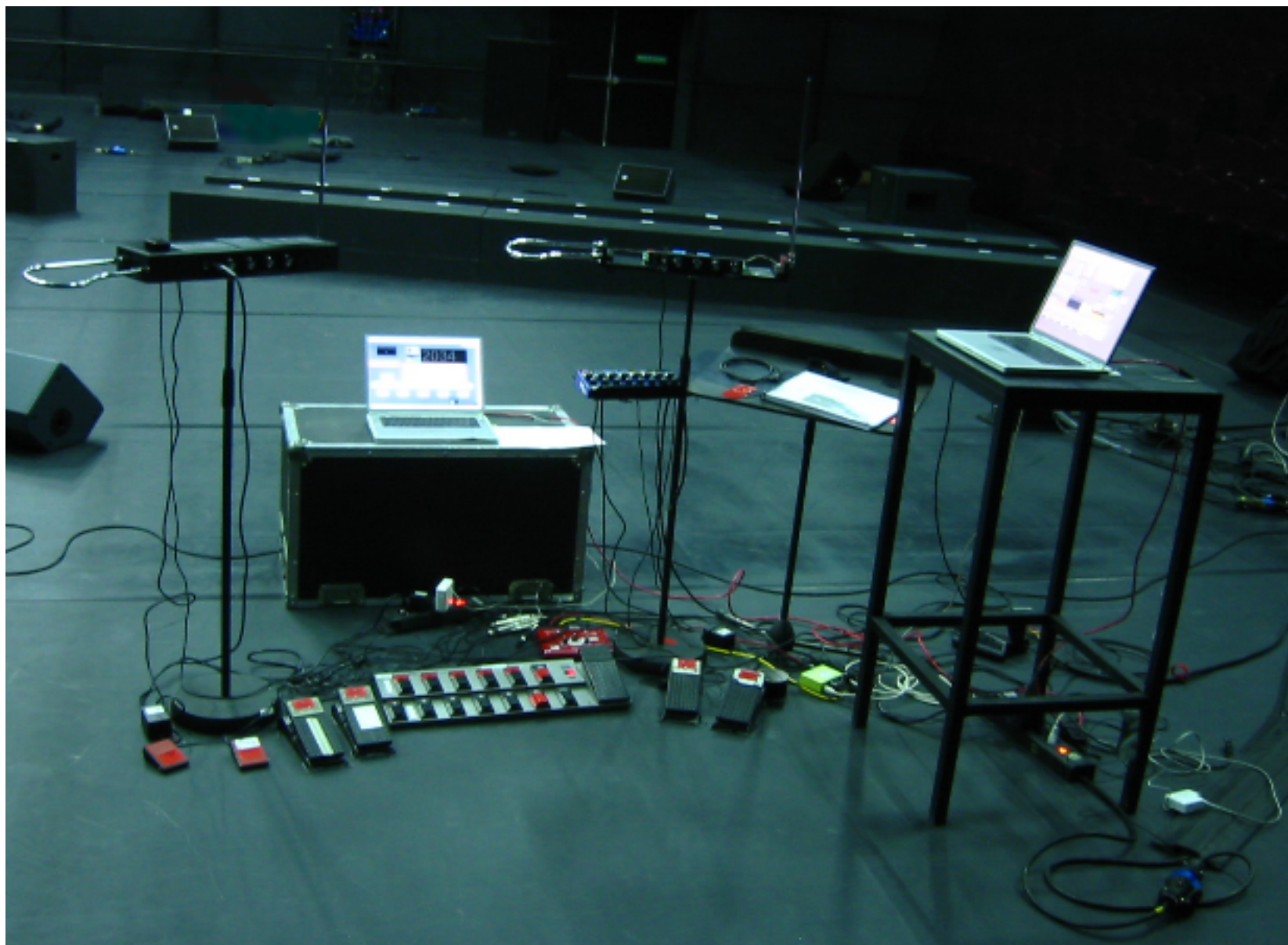
Dispositif de spatialisation sonore:

1 - 4 caissons de basses et 4 têtes

2 - 6 Hauts- parleurs

3 - 2 caissons de basses avec 2 têtes chacun





le dispositif technique (theremins, ordinateurs, capteurs et contrôleurs MIDI) de Laurent Dailleau, lors de la création (Centre Beaubourg, Paris fev 2004)

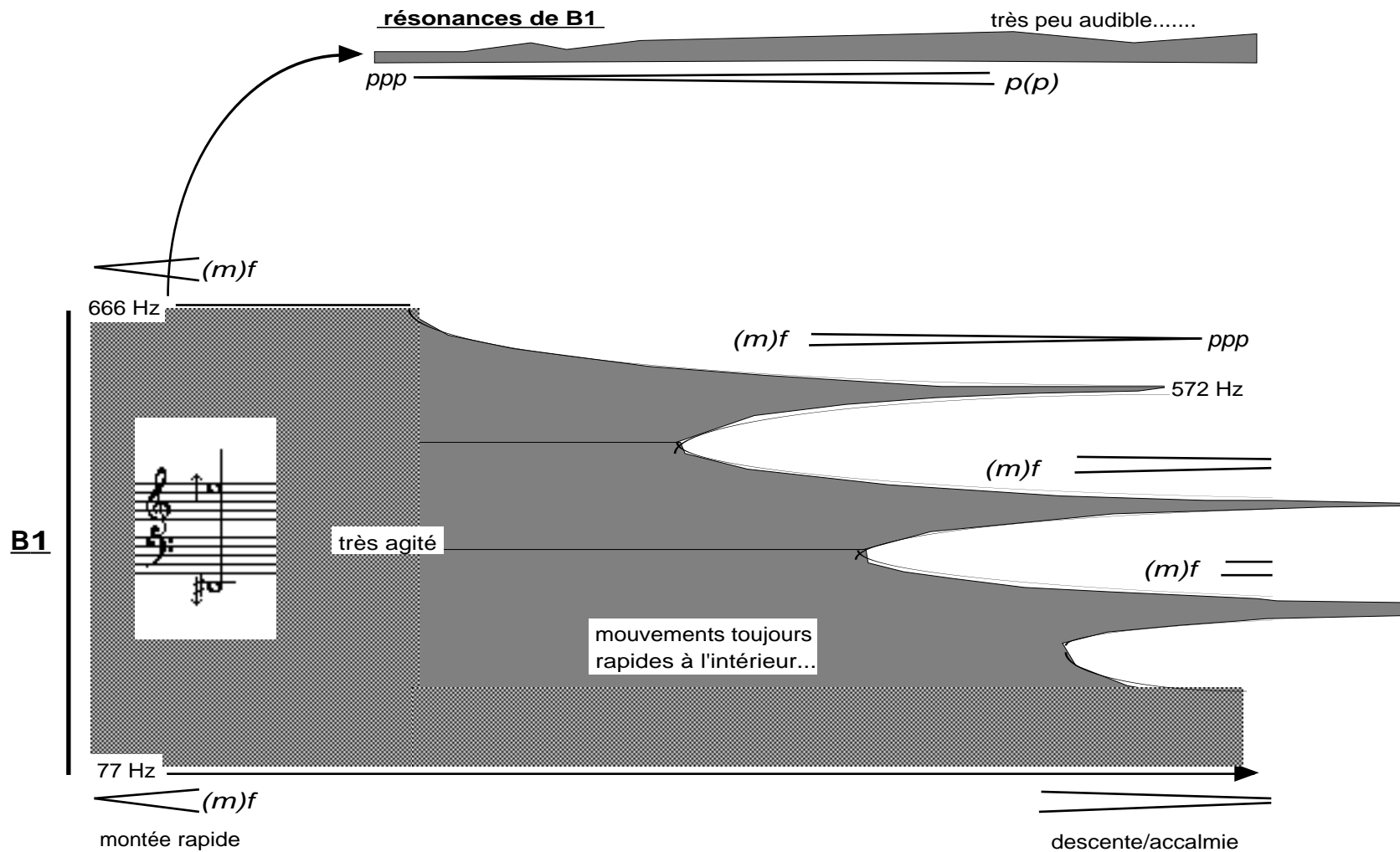
**SPATIALISATION**

diffusion partout

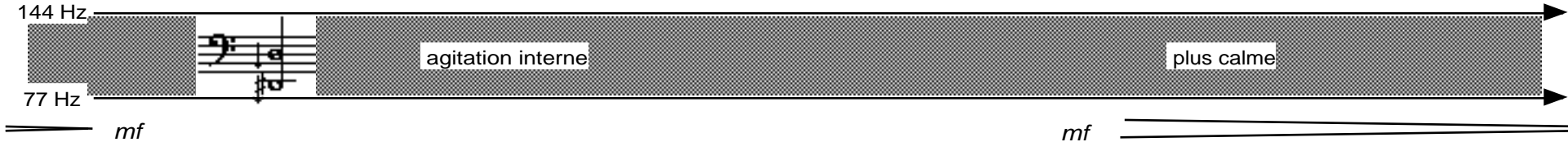
recul en une zone

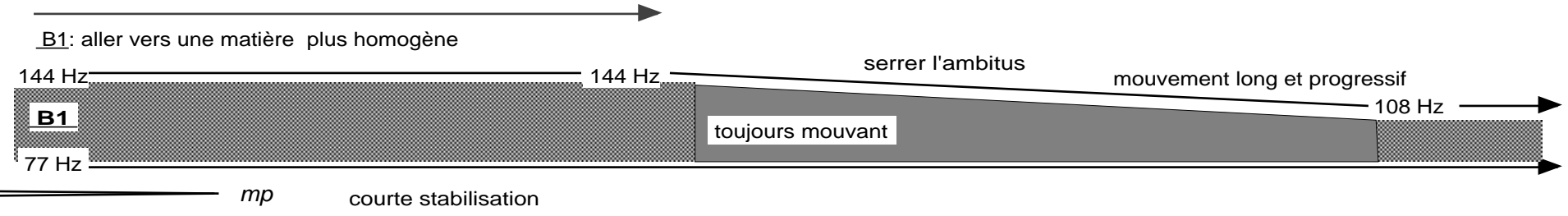
les résonances en une autre zone

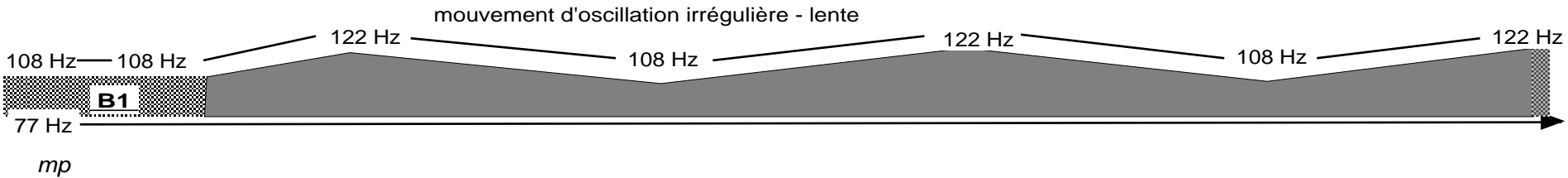
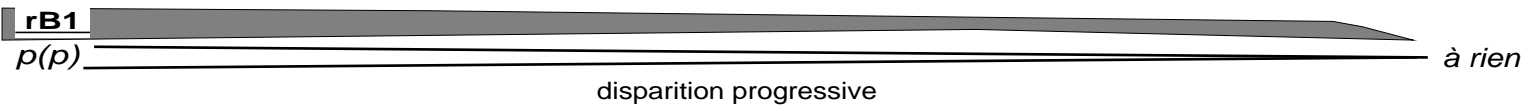
**SON**



lent mouvement circulaire autour du public - un demi cercle



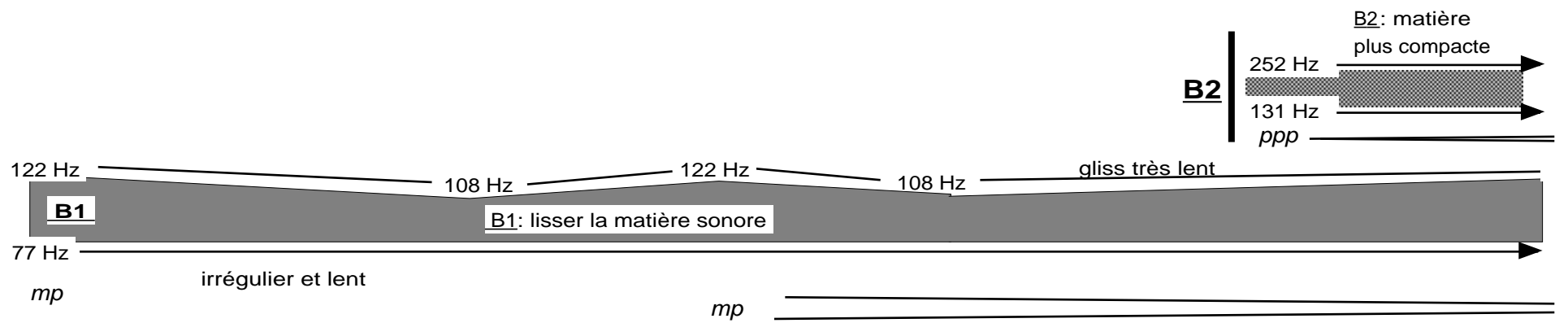






arrêt progressif  
du mouvement

B2: en un autre angle





252 Hz  
131 Hz

**B2**

crescendo très progressif, comme statique

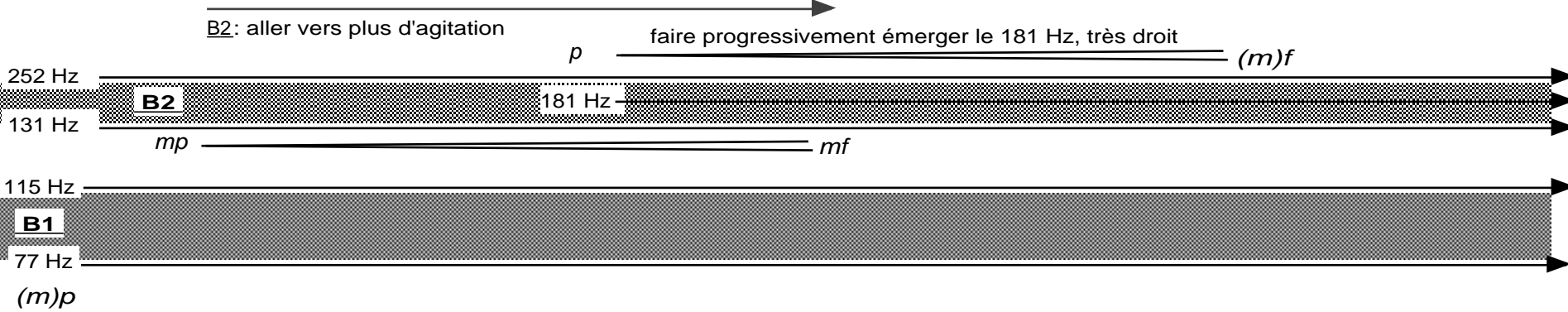
*mp*

115 Hz  
77 Hz

**B1**

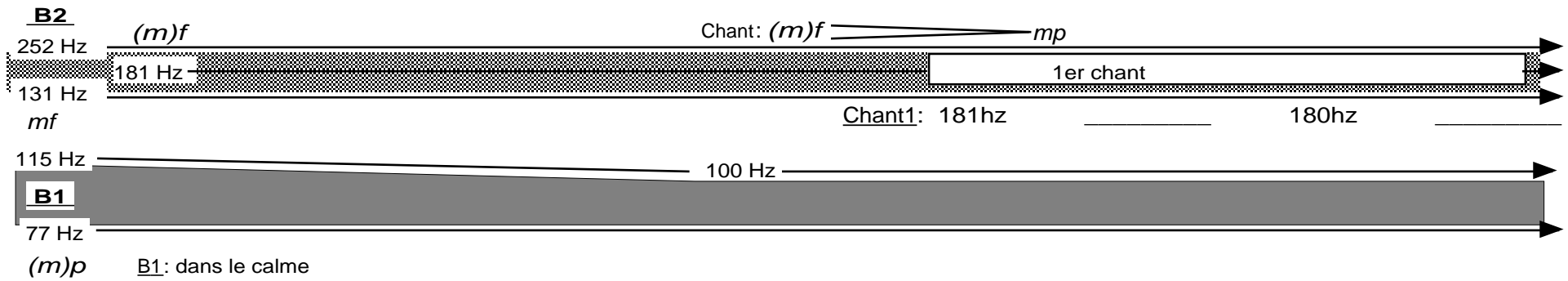
**B1: matière très calme**

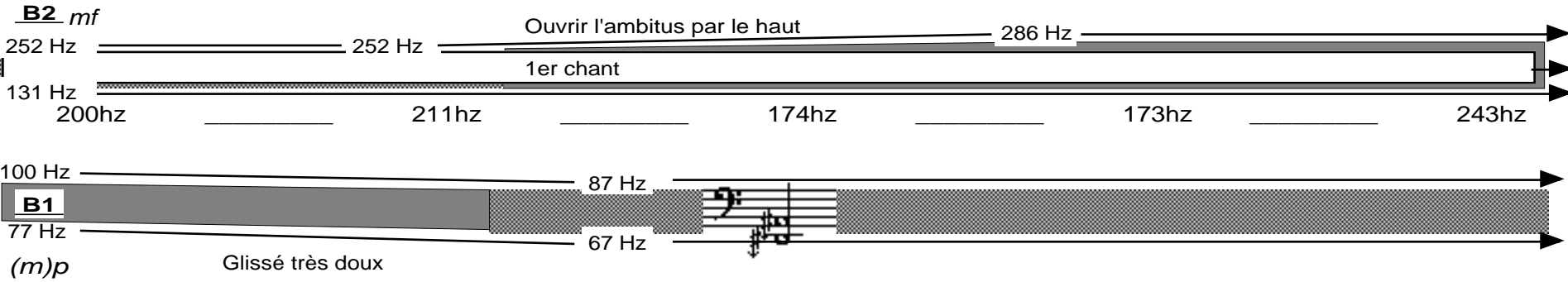
*(m)p*



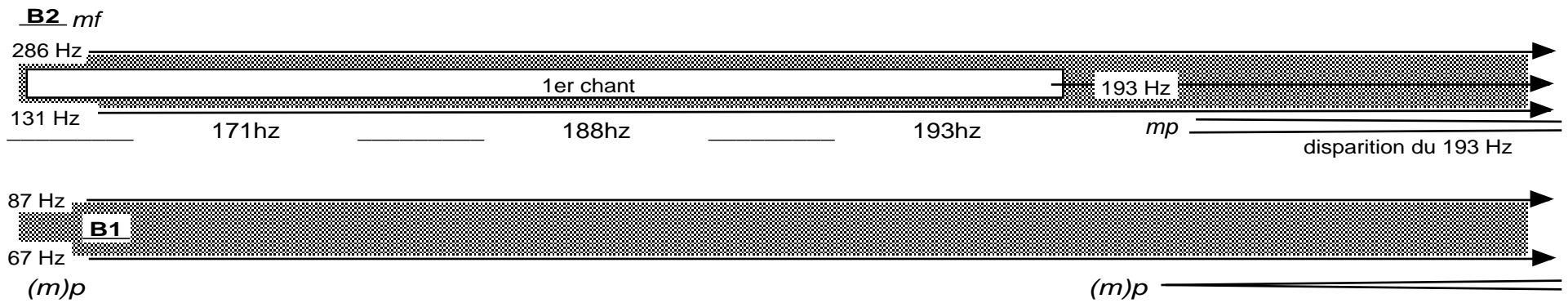
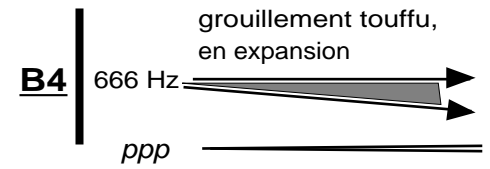
Seul le chant est spatialisé, mouvements  
lents au centre de la salle

Chant1, en hz: 181 \_ 180 \_ 200 \_ 211  
\_ 174 \_ 173 \_ 243 \_ 171 \_ 188 \_  
193

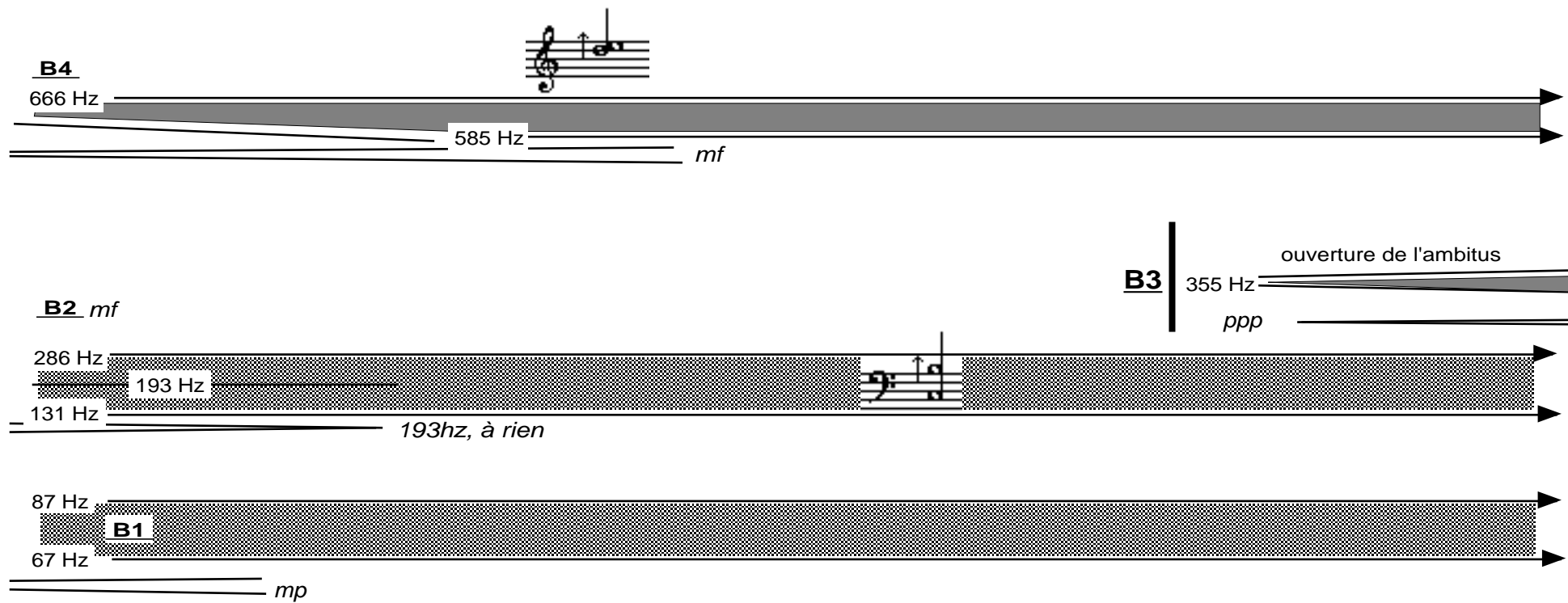




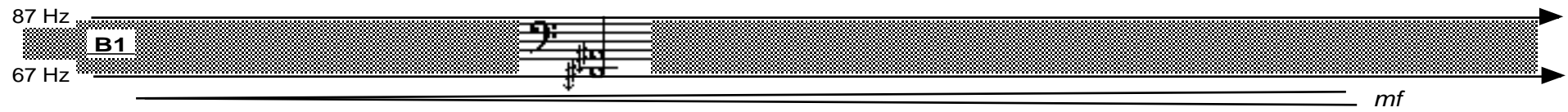
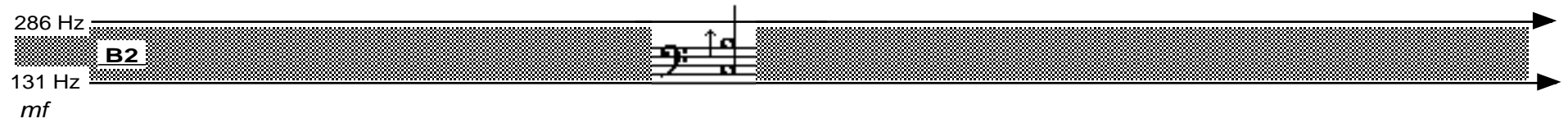
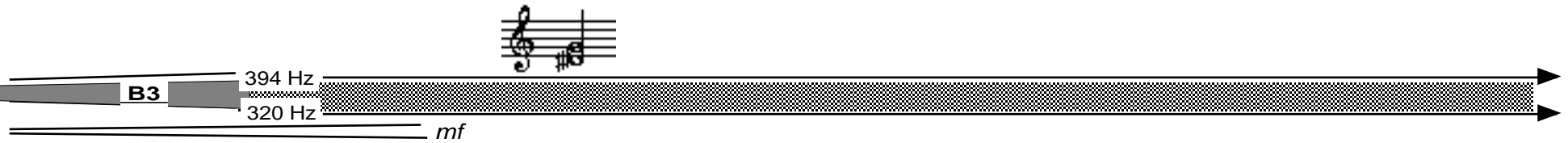
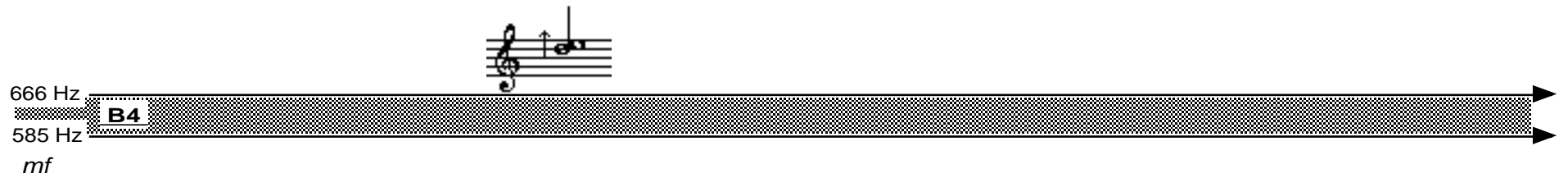
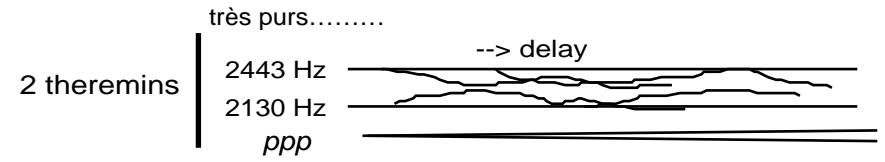
B4 apparait à un 3ème coin



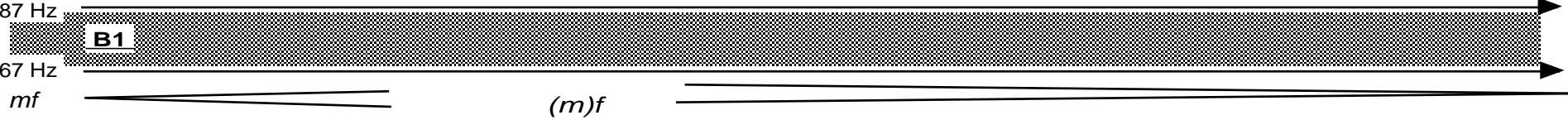
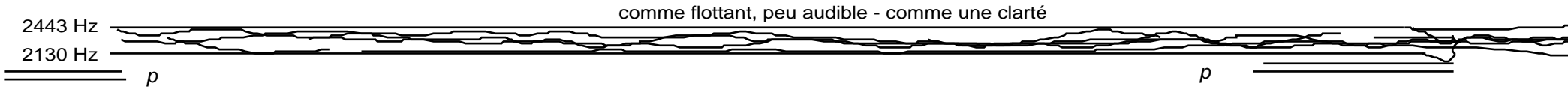
B3 occupe le 4ème coin



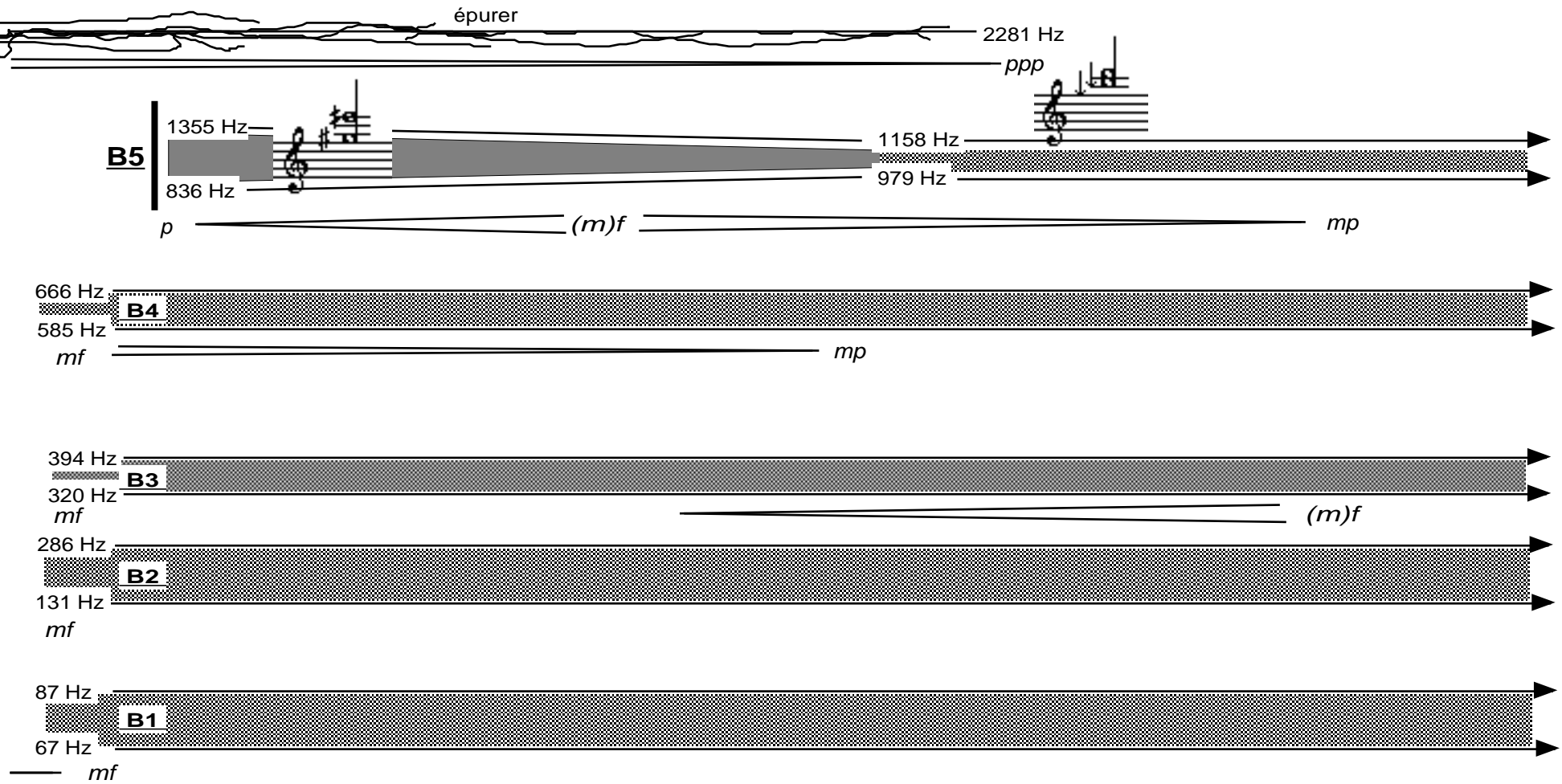
le double chant aigu comme flottant, au milieu de la salle



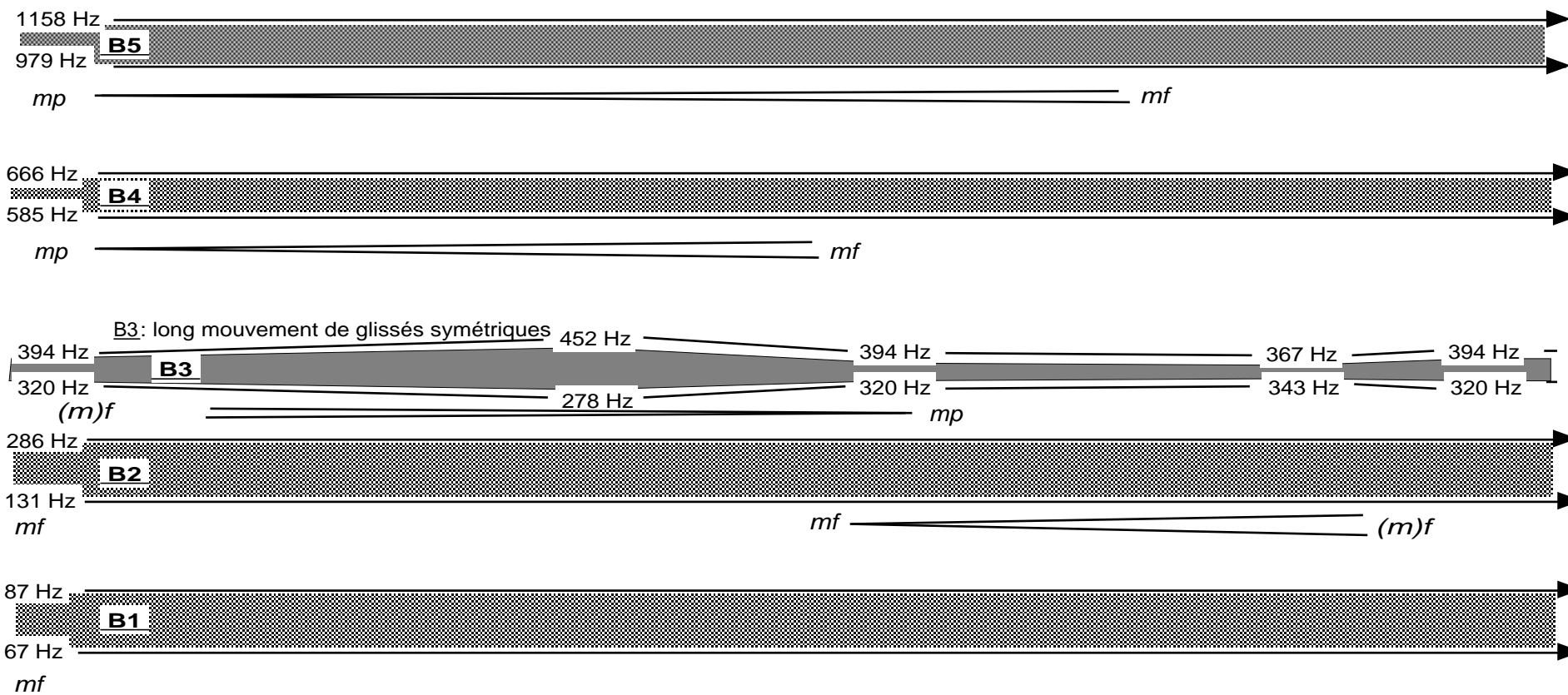


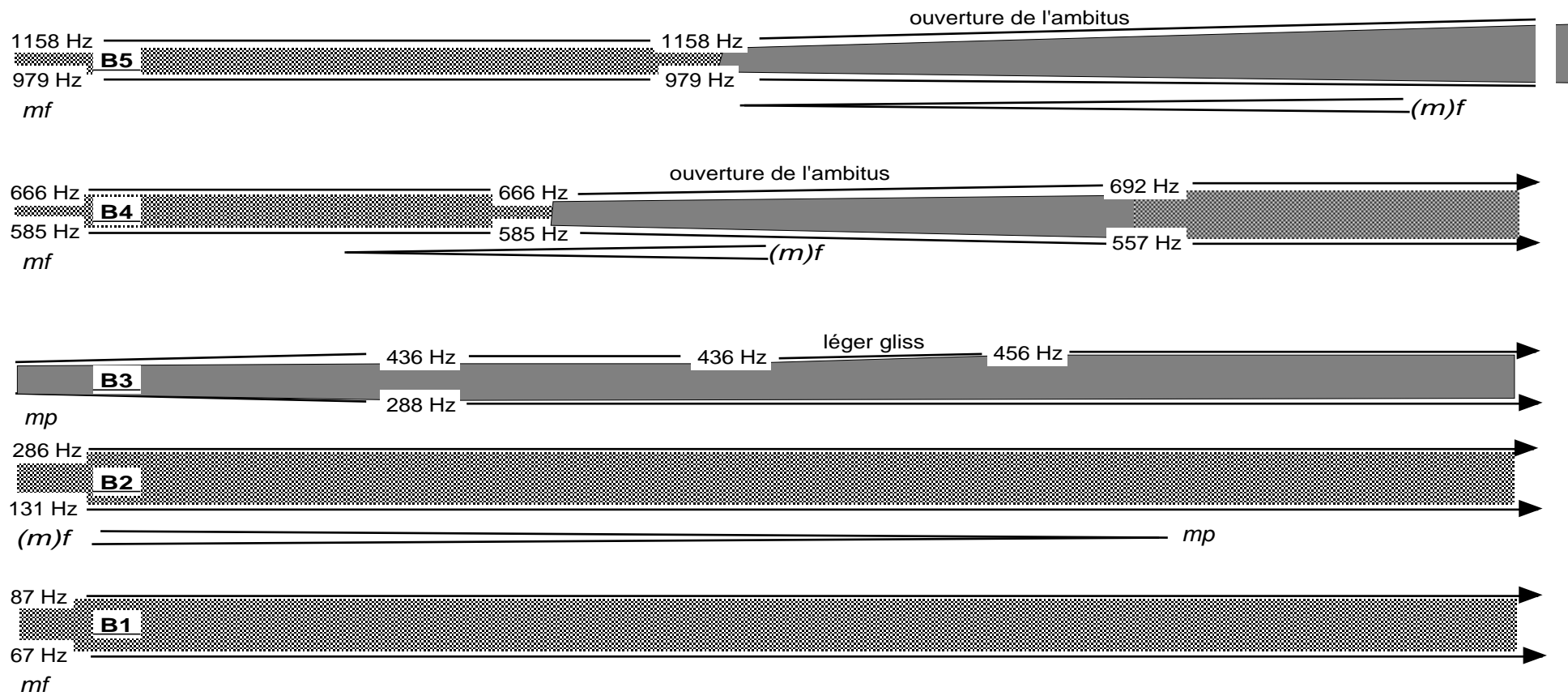


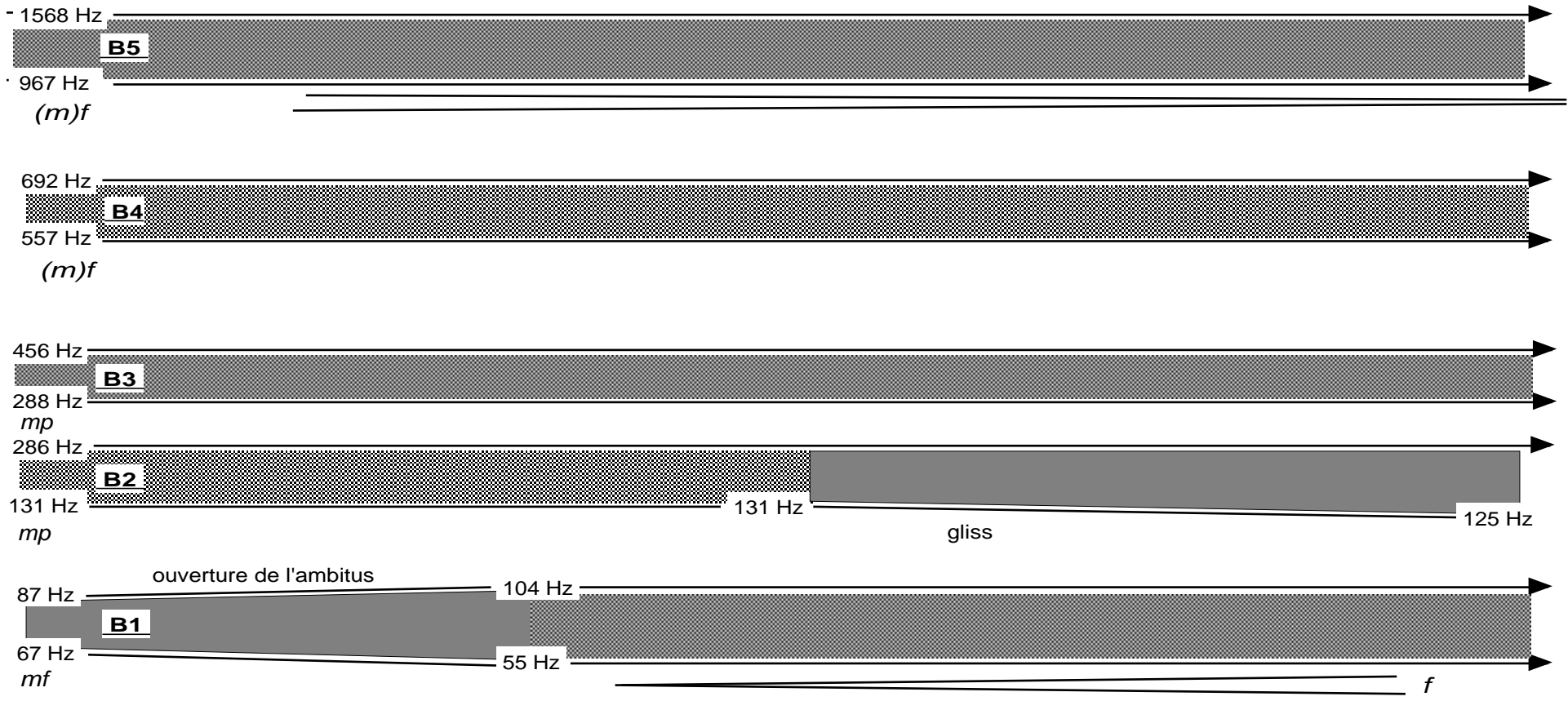
B5 entame un lent mouvement circulaire, autour de la salle



Les blocs B1 B2 B3 B4 se meuvent , très lentement, de façon uniforme autour de la salle







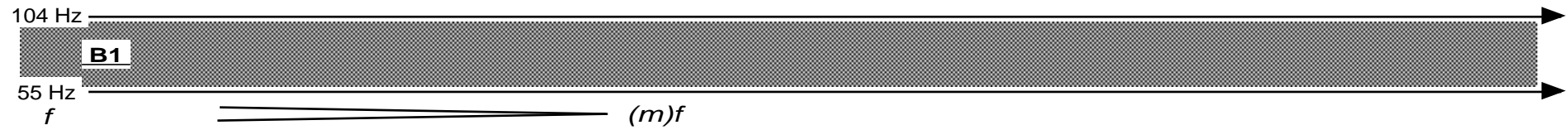
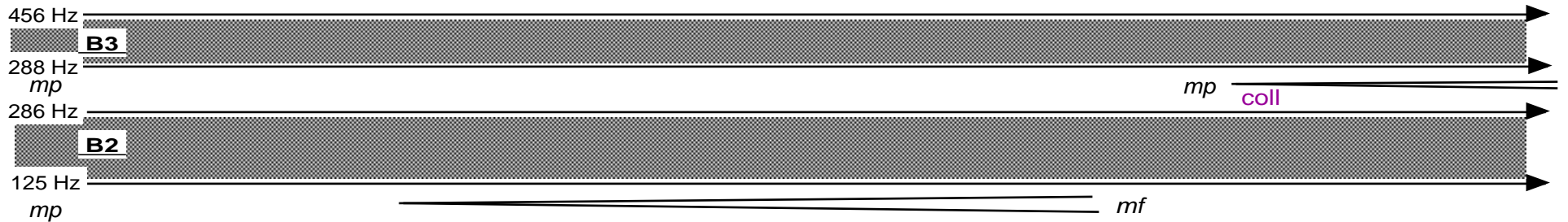
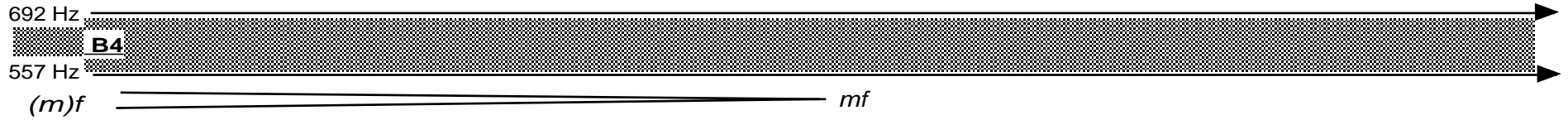
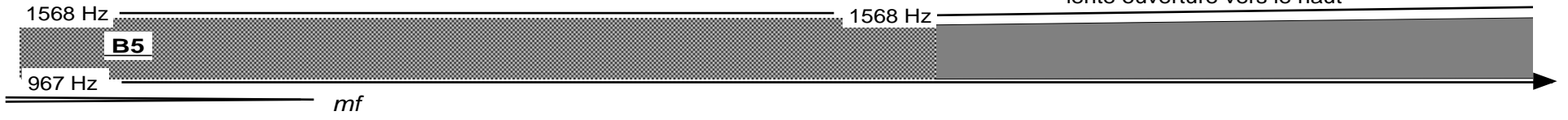


Poussière rapide, au centre

Nuage de  
poussière | *pp*



lente ouverture vers le haut



*pp*

un long glissé imperceptible

1730 Hz

**B5**

967 Hz

*mf*

692 Hz

**B4**

557 Hz

*mf*

456 Hz

**B3**

288 Hz

*mf*

286 Hz

**B2**

125 Hz

*mf*

104 Hz

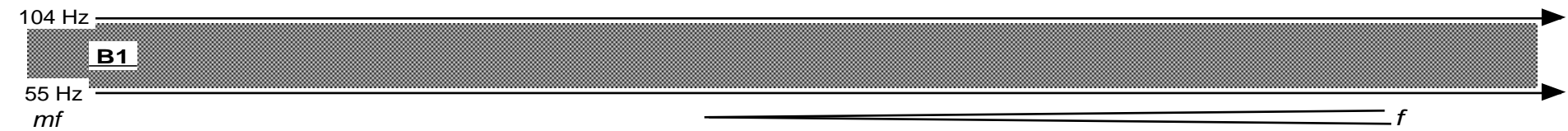
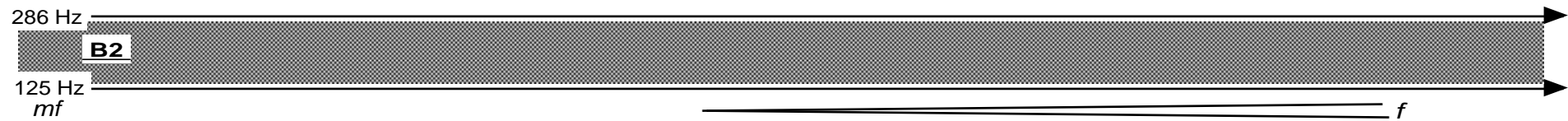
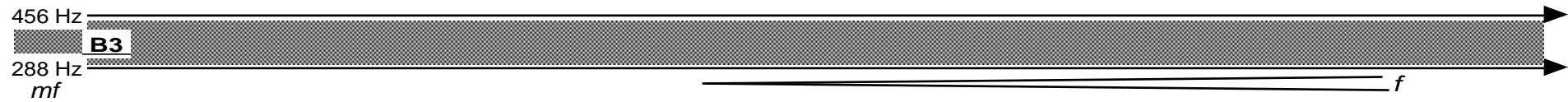
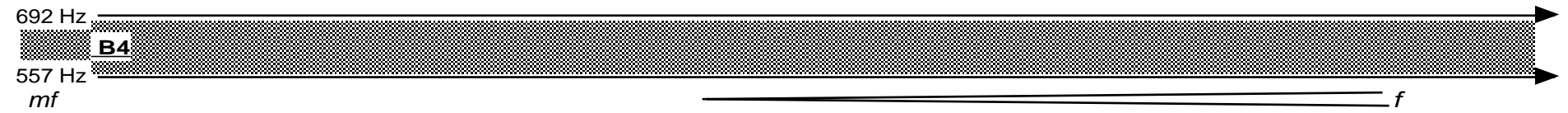
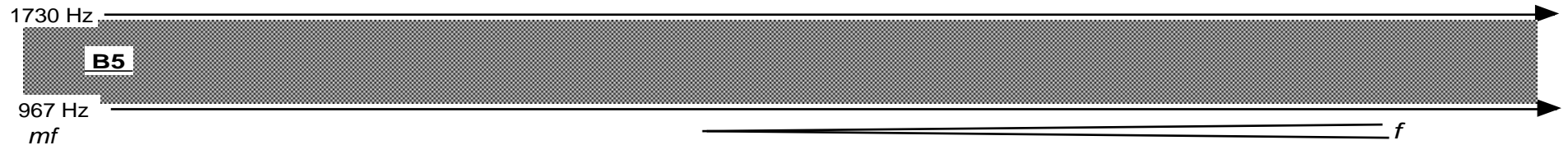
**B1**

55 Hz

*(m)f*

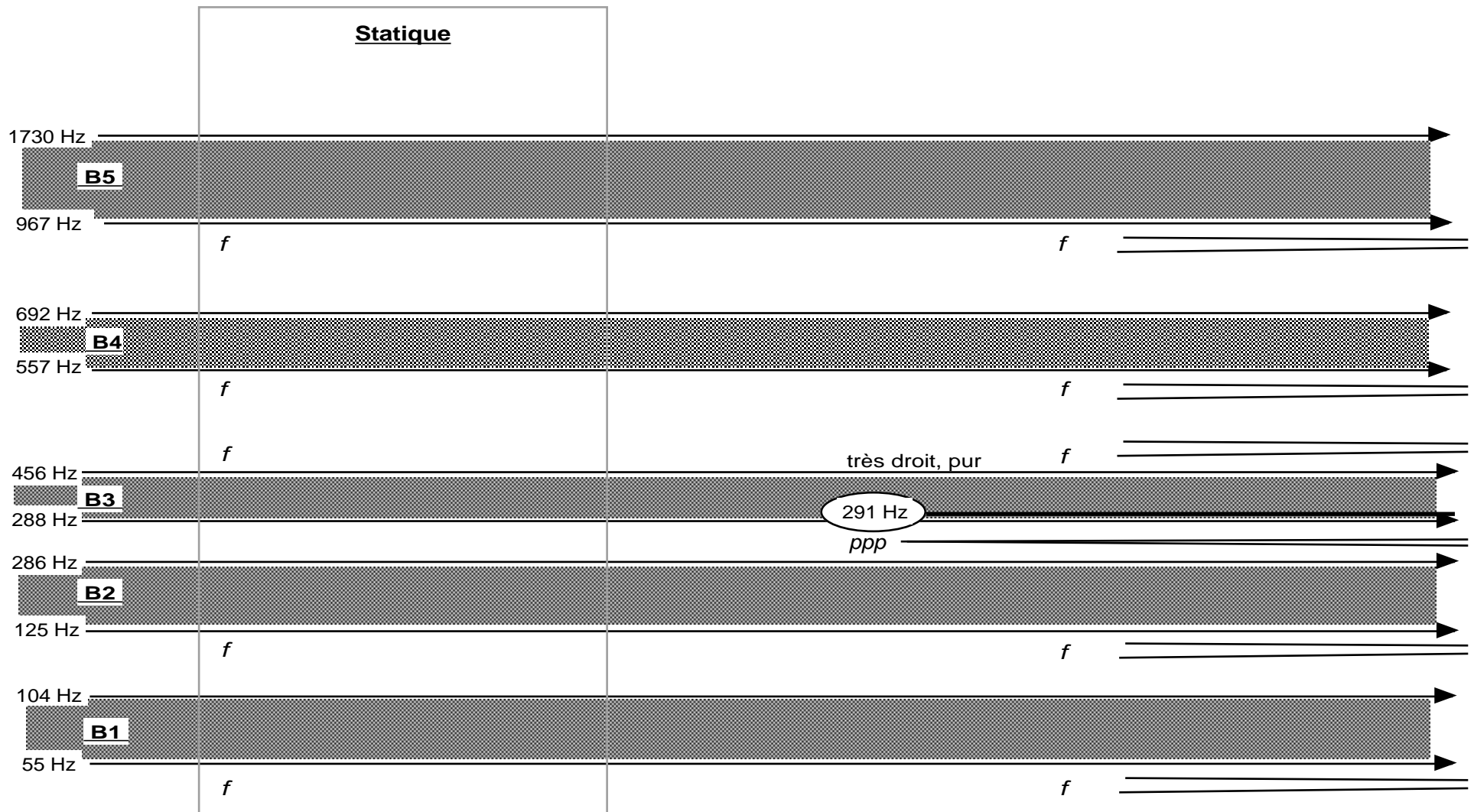
*mf*

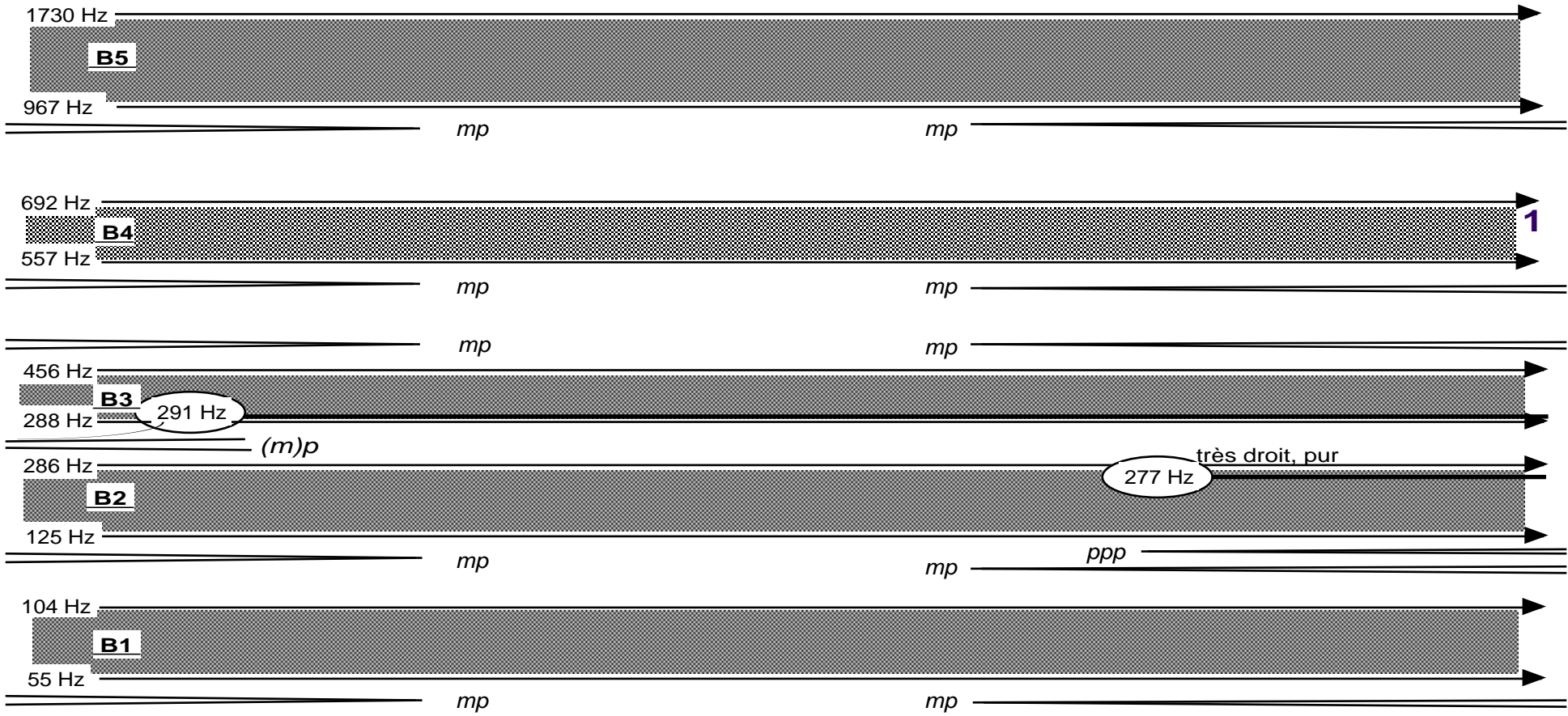
*pp* \_\_\_\_\_ *à rien*



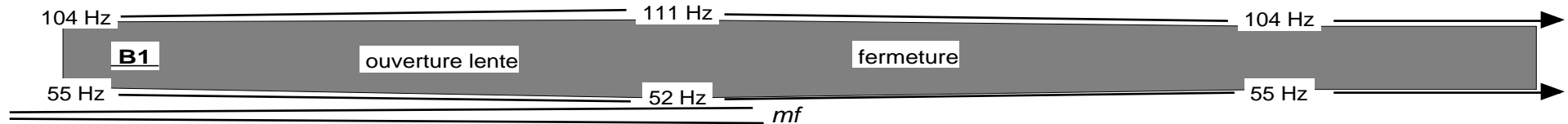
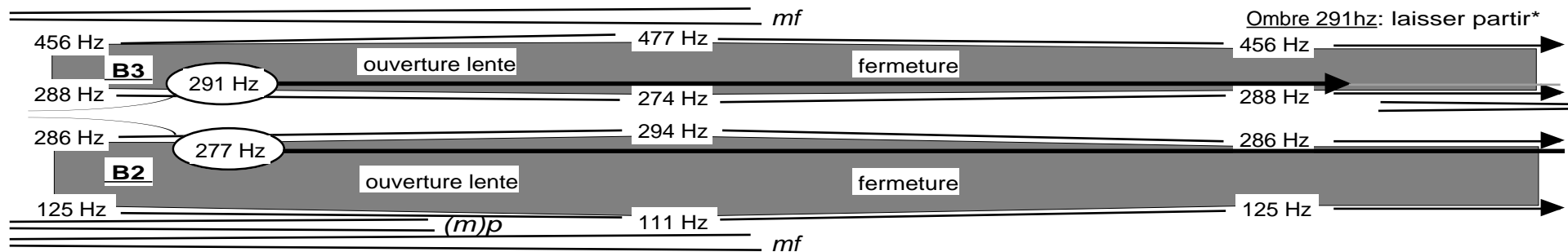
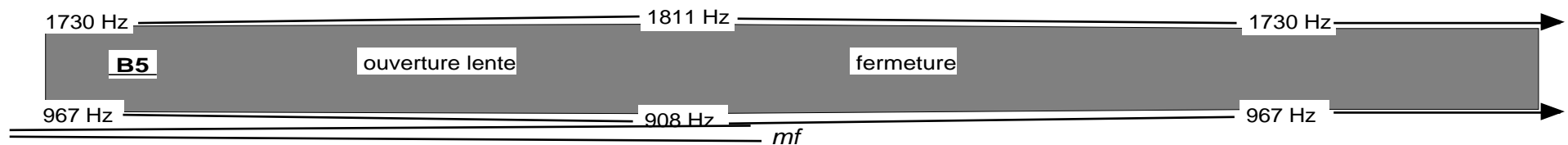


le chant apparaît de deux côtés à la fois





\* Ombre: faire disparaître le son  
 \_presque\_ complètement mais garder  
 toujours un minuscule filet de son



\*\* : B1, B2, B3, B4 & B5 - progressivement passer à une matière plus "bruitée" (bruit blanc) tout en serrant les ambitus autour de leur fréquence centrale

**B1, B2, B3, B4, B5:** *mf* \_\_\_\_\_

1730 Hz  
**B5** \*\*  
 967 Hz  
*mf*  
 965 Hz (circled)  
*ppp* très droit, pur

692 Hz  
 727 Hz (circled)  
**B4** \*\*  
 557 Hz  
*mf*  
 (m)p

456 Hz  
**B3** \*\*  
 288 Hz (291hz)  
*ppp*  
*mf*

286 Hz  
 277 Hz (circled)  
**B2** \*\*  
 125 Hz  
*mf*

104 Hz  
**B1** \*\*  
 55 Hz  
*mf*

**B1, B2, B3, B4, B5:** *mf* \_\_\_\_\_

l'accord du chant mobile, au centre

mp

**B5**

965 Hz

(m)p

727 Hz

Ombre 727hz: laisser partir\* →

**B4**

mp

**B3**

(291hz)

277 Hz

Ombre 277hz: laisser partir\* →

ppp

ppp

(277hz)

**B2**

119 Hz

très droit, pur

ppp

**B1**

mp



**B1, B2, B3, B4, B5:** *mp*

*ppp*  
très droit, pur  
1705 Hz

**B5**

965 Hz Ombre 965hz: laisser partir\*

*ppp* (727hz)

**B4**

**B1, B2, B3, B4, B5:** *mp*

**B3**

*ppp* (291hz)

*ppp* (277hz)

**B2**

119 Hz  
*(m)p*

106 Hz très droit, pur

**B1**

*ppp* *(m)p*

**B1, B2, B3, B4, B5:** *mp*



=====  
=====  
=====  
*(m)f*

=====  
=====  
=====  
*(m)p*

1705 Hz

**B5**

=====  
=====  
=====  
*ppp* (965hz)

=====  
=====  
=====  
*ppp* (727hz)

**B4**

=====  
=====  
=====  
*(m)f*

*ppp* très droit, pur (m)p  
450 Hz -> Delay

450 Hz

**B3**

(291hz)

*ppp*

*ppp*

**B2**

(277hz)

119 Hz

Ombre 119hz: laisser partir\*

*ppp*

**B1**

106 Hz

55 Hz

très droit, pur

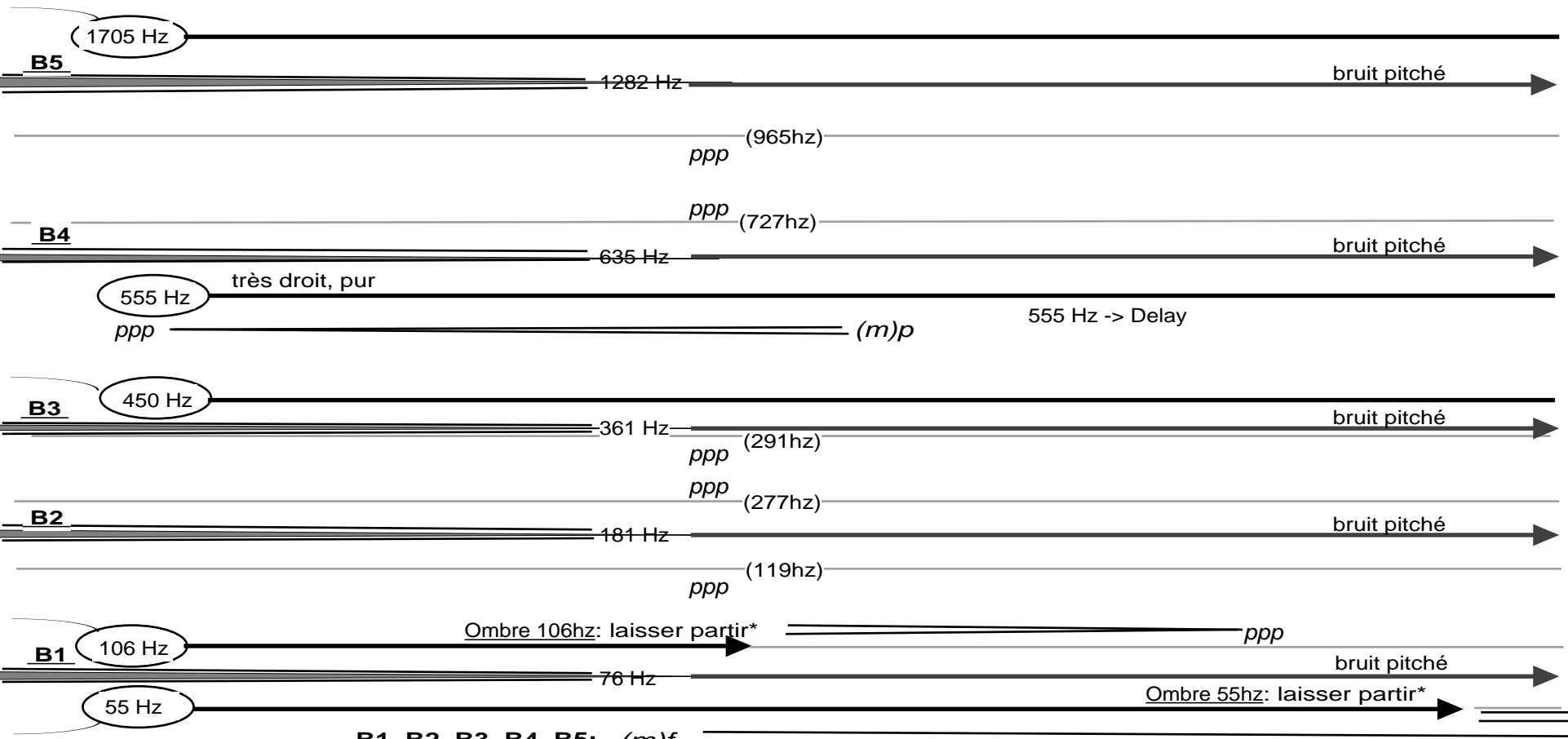
*ppp*

*(m)p*

=====  
=====  
=====  
*(m)f*

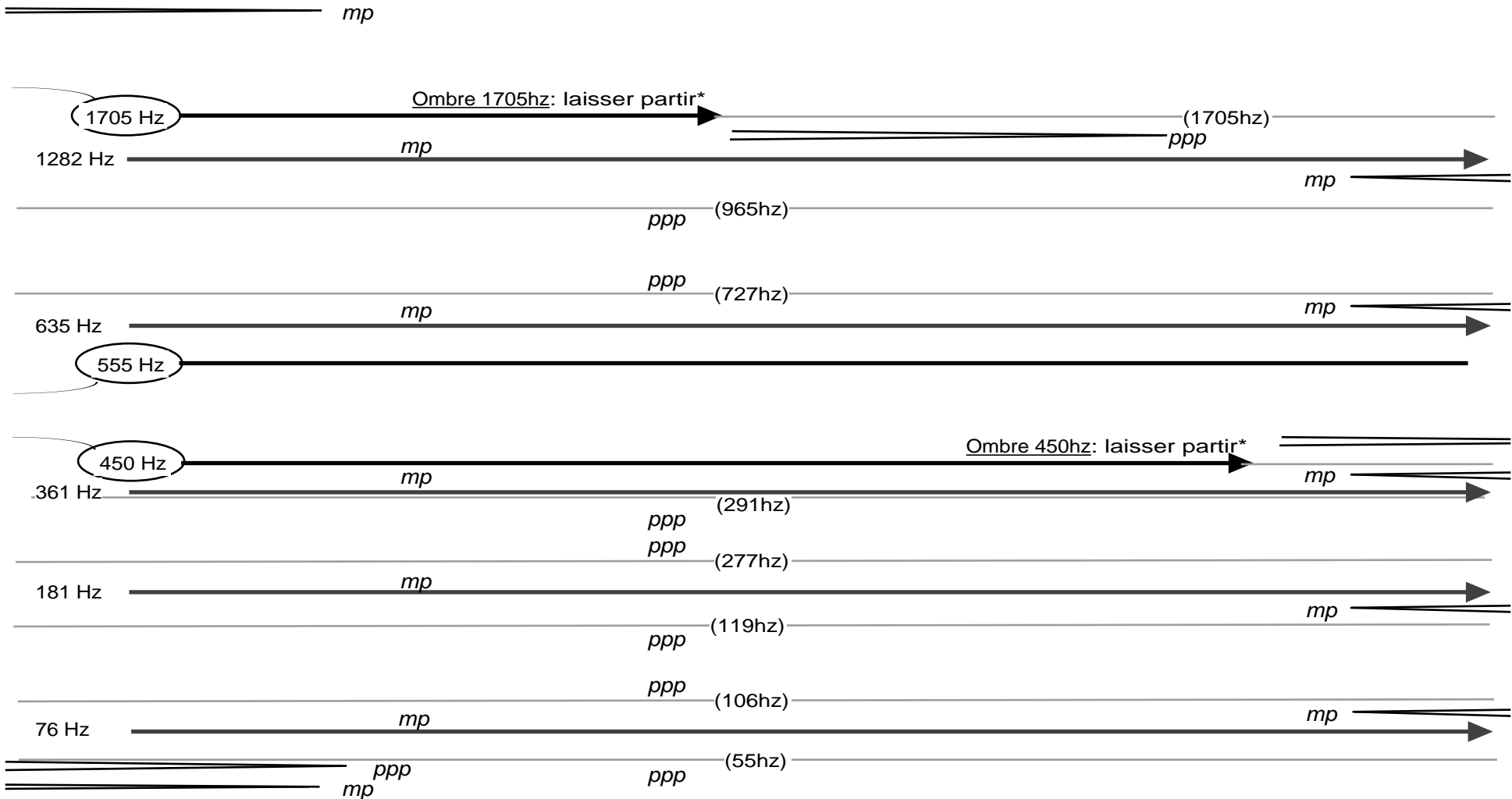


**B1, B2, B3, B4, B5:** (m)f

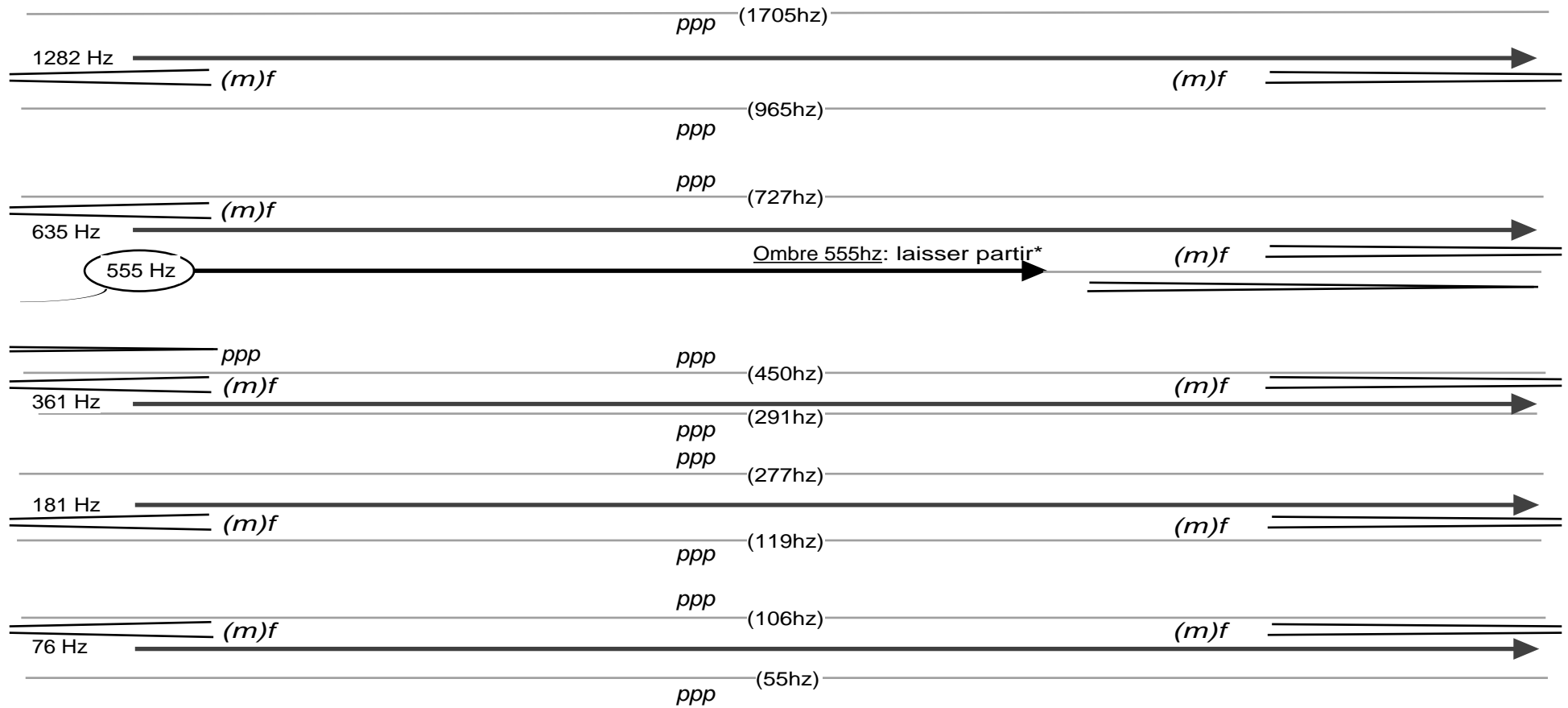
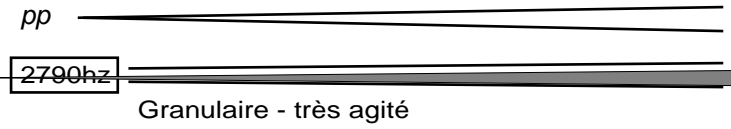


**B1, B2, B3, B4, B5:** (m)f





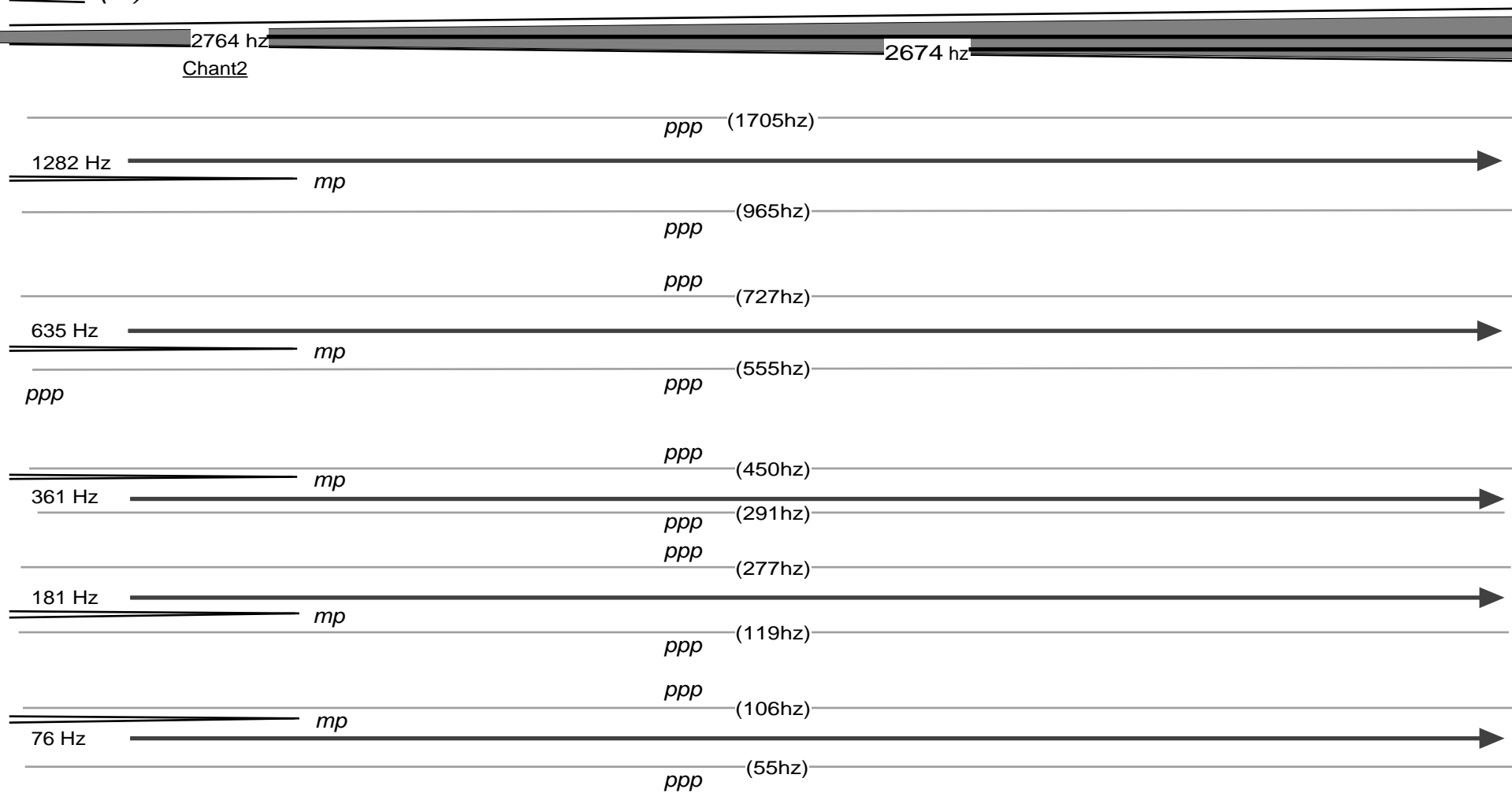
La granulaire apparait au fond et se meut lentement



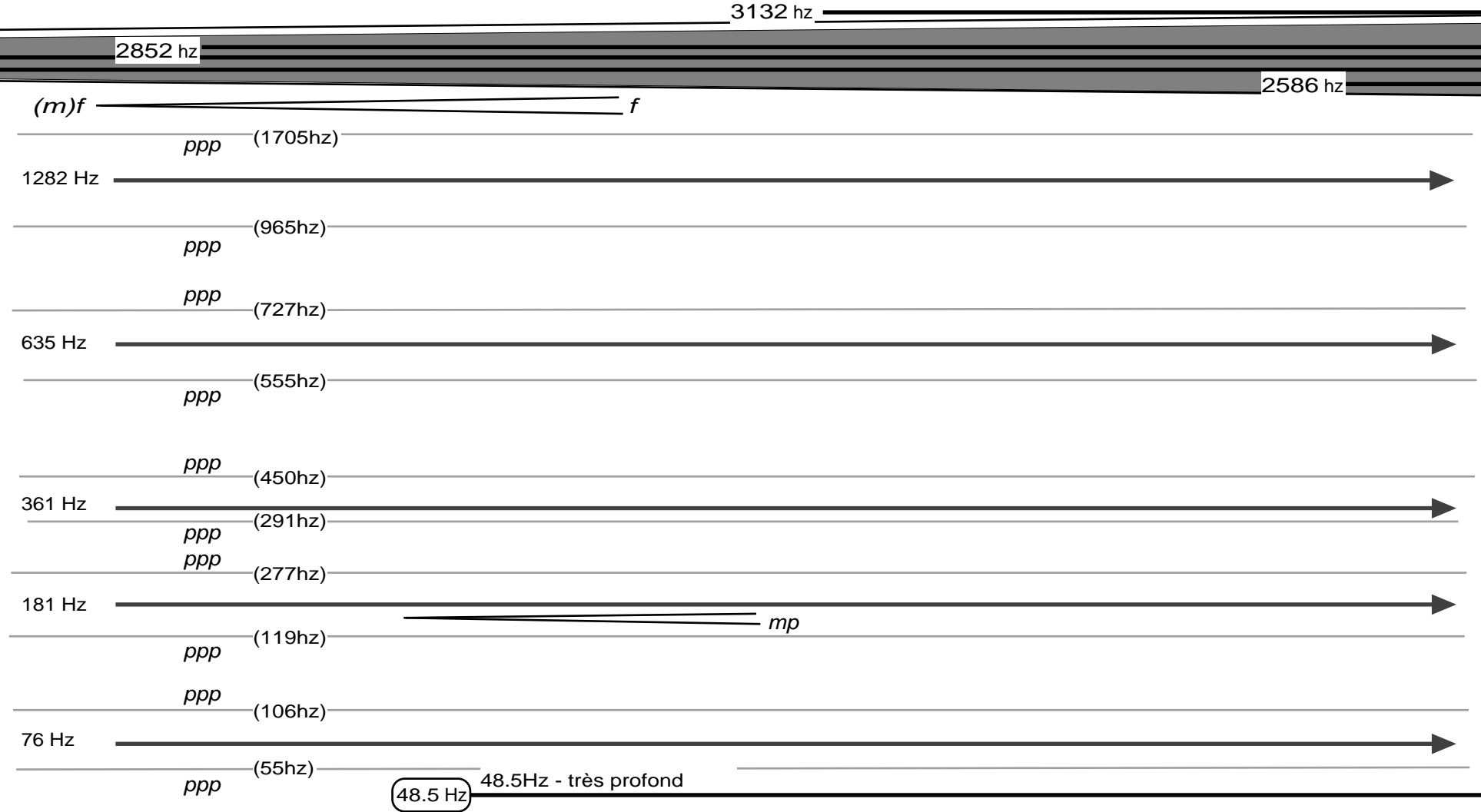
le chant 2 est dans la granulaire

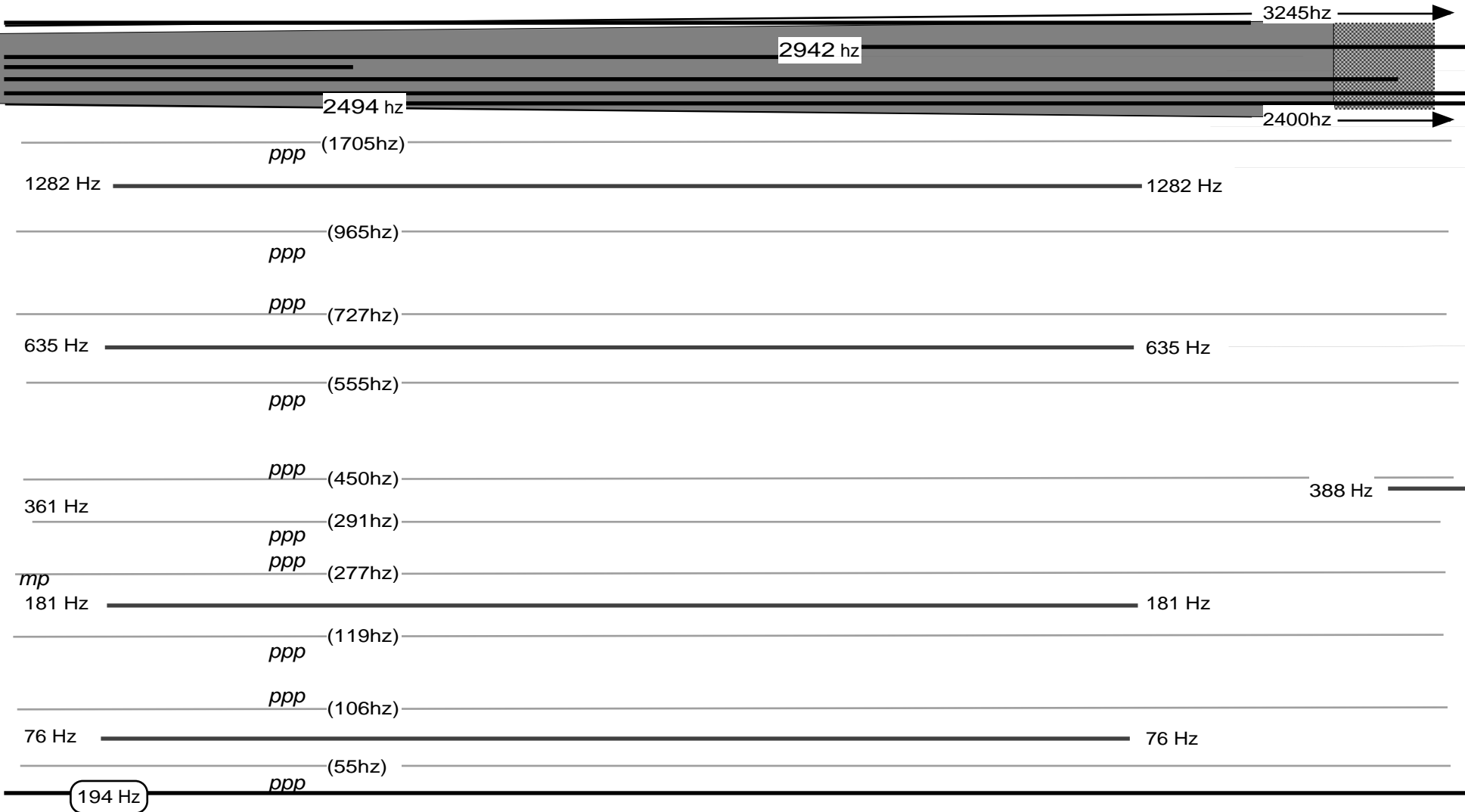
Chant 2 : 2764 hz \_ 2674 hz \_ 2852 hz \_ 3132 hz \_ 2586 hz \_ 2494 hz \_ 2942 hz \_ 3030 hz

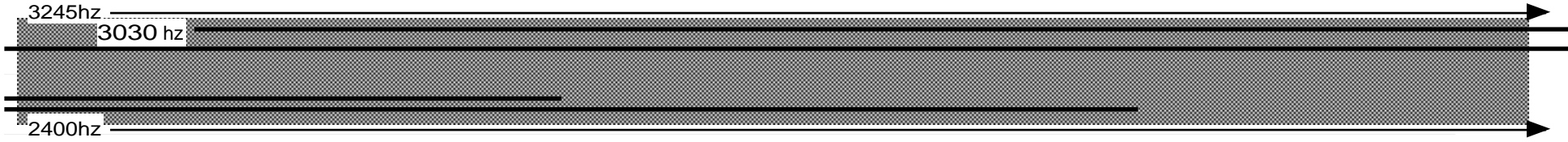
=====  
=====  
(m)f



le 48.5 Hz vient de deux cotés à la fois







*ppp* (1705hz) 1662 Hz

*ppp* (965hz)

*ppp* (727hz) 742 Hz

*ppp* (555hz)

*ppp* (450hz) 388 Hz

*ppp* (291hz)

*ppp* (277hz)

*ppp* (119hz) 175 Hz

*ppp* (106hz)

*ppp* (55hz) 65 Hz

194 Hz

3245hz

2400hz

1662 Hz

742 Hz

388 Hz

175 Hz

65 Hz

*ppp* (1705hz)

*ppp* (965hz)

*ppp* (727hz)

*ppp* (555hz)

*ppp* (450hz)

291 Hz *ppp* *mp*

*ppp* 277 Hz *mp*

*ppp* (119hz)

*ppp* (106hz)

*ppp* (55hz)

3245hz

2400hz

*ppp* (1705hz)

*ppp*

965 Hz

*ppp*

*mp*

727 Hz

*ppp*

*mp*

*ppp* (555hz)

*ppp* (450hz)

291 Hz

277 Hz

119 Hz

*ppp*

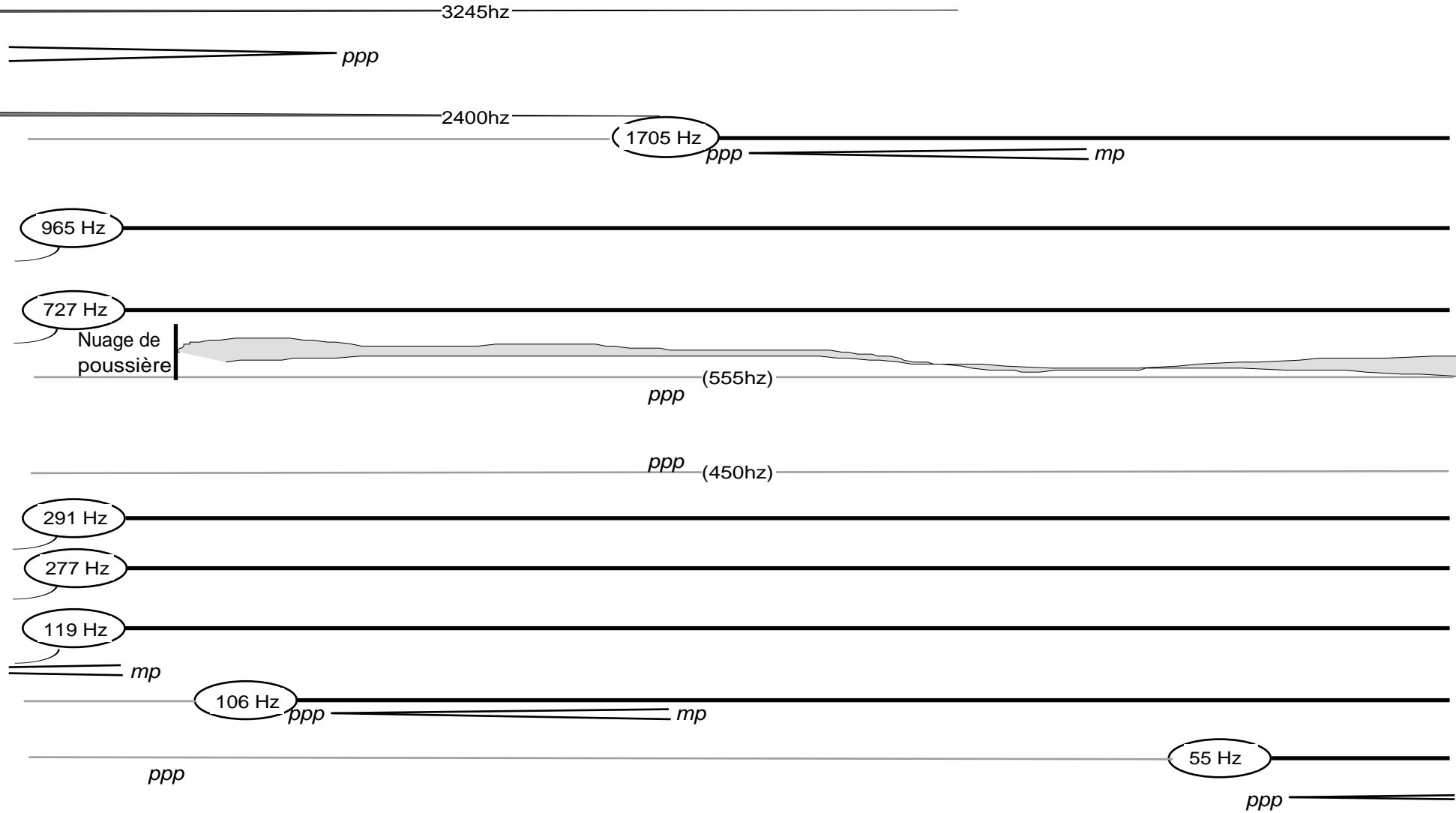
*ppp*

*ppp* (106hz)

*ppp* (55hz)

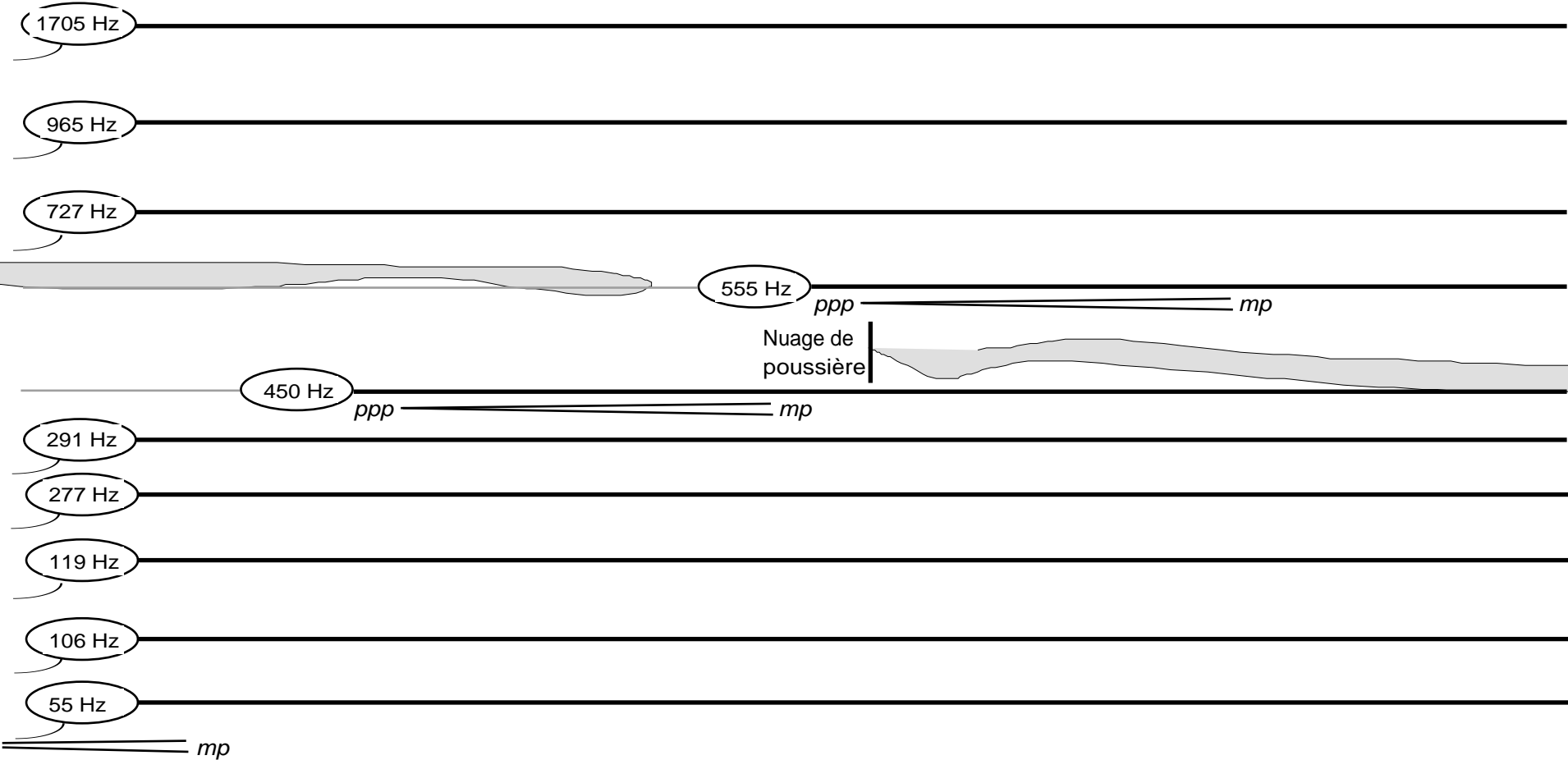


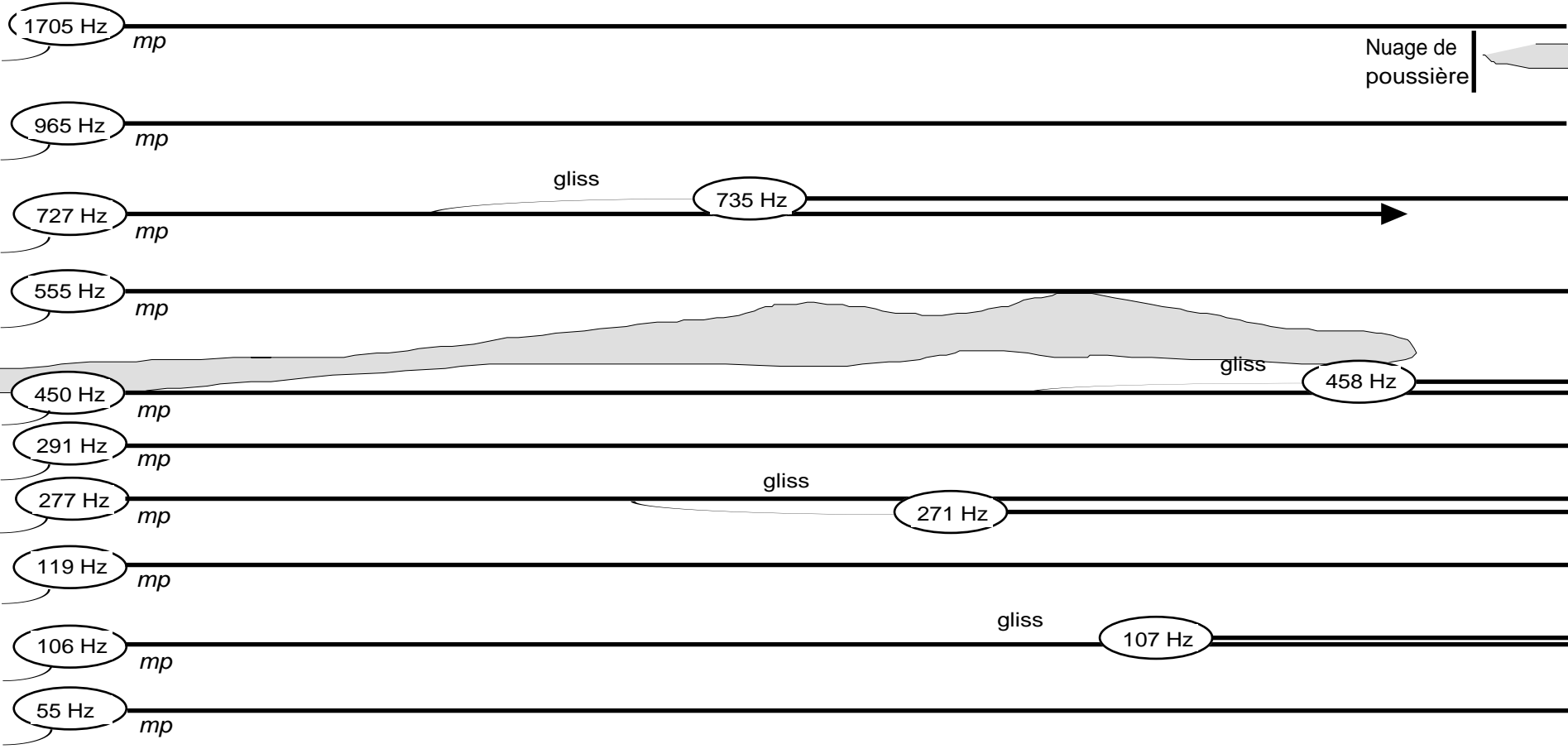
passages rapides des nuages de poussière



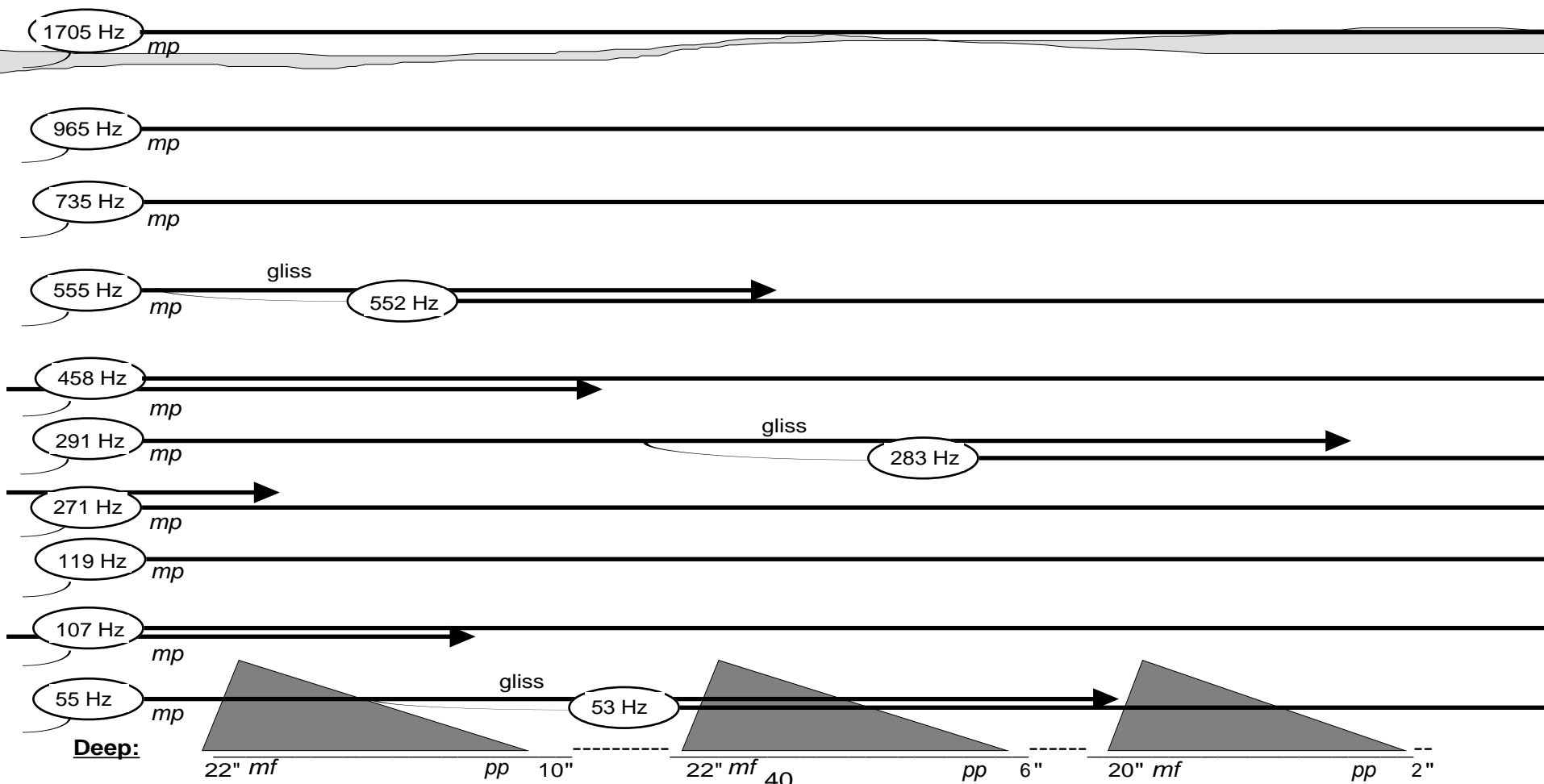


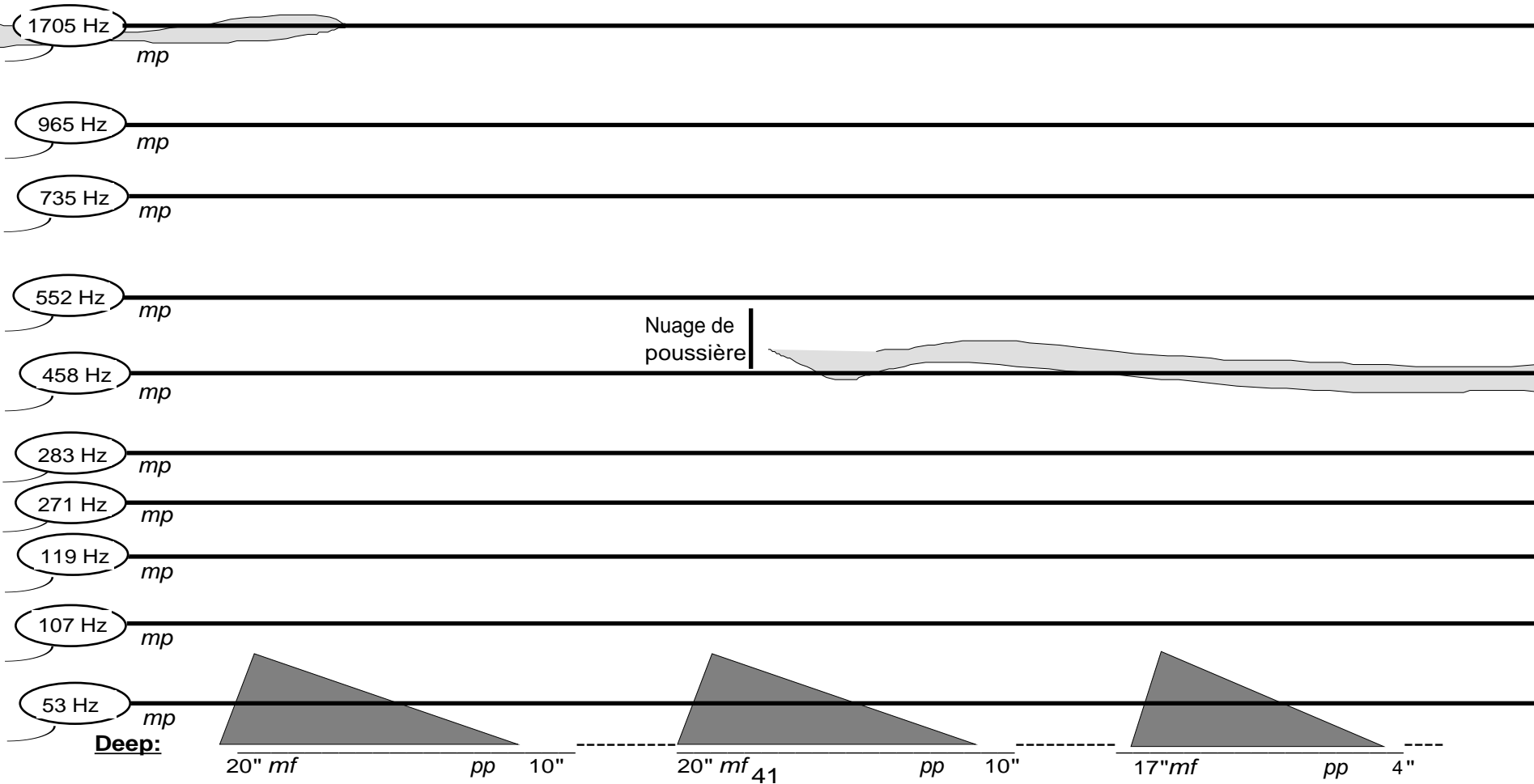
stabiliser

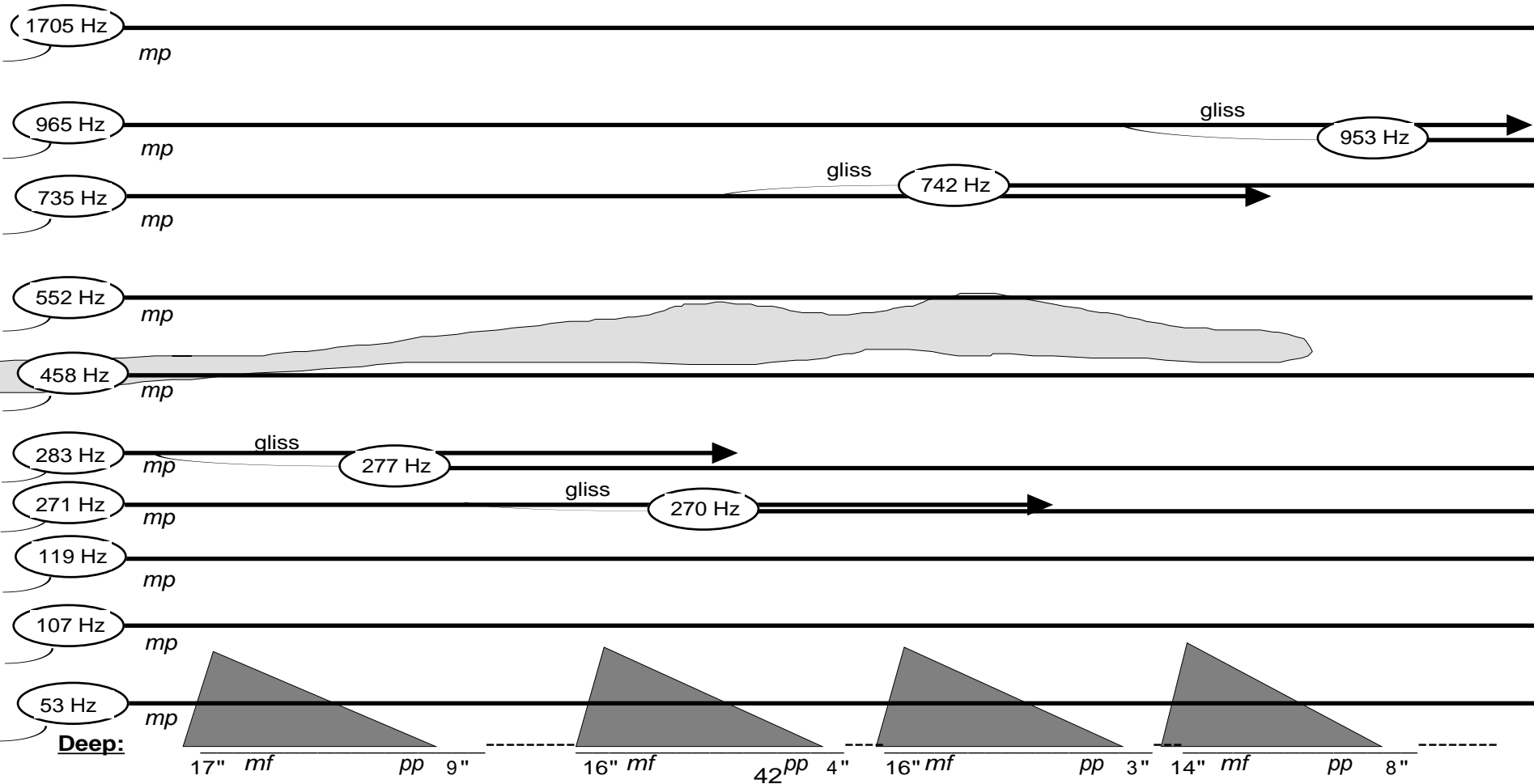


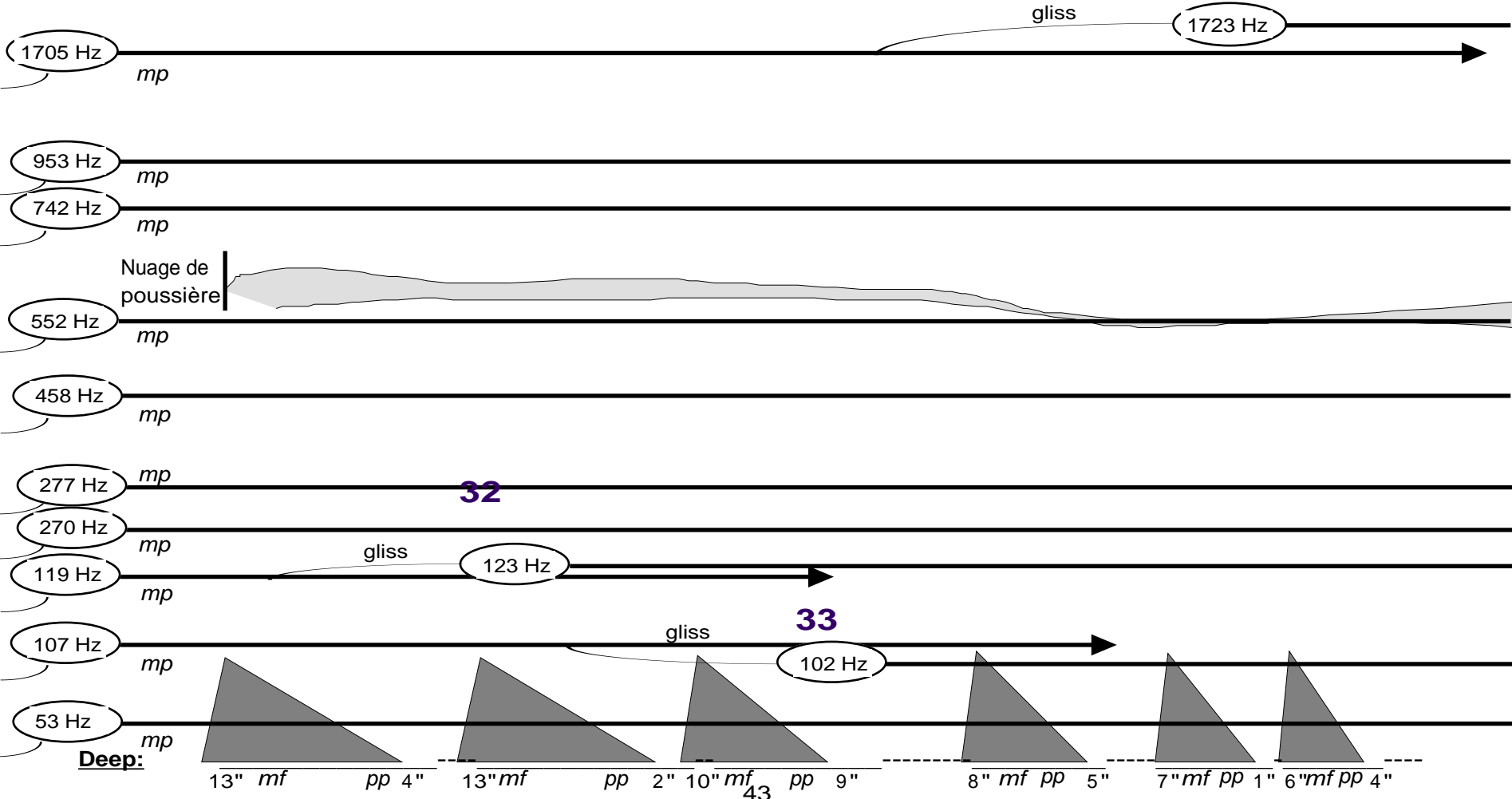


DEEP fait un long parcours autour du public, et se dédouble











1723 Hz *mp*

953 Hz *mp*

742 Hz *mp*

552 Hz *mp* gliss → 539 Hz

458 Hz *mp* gliss → 469 Hz

277 Hz *mp*

270 Hz *mp*

123 Hz *mp*

102 Hz *mp* gliss

53 Hz *mp* 51 Hz

**Deep:**

6" *mf pp* 9"

5" *mf* 8"

4" *mf* 10"

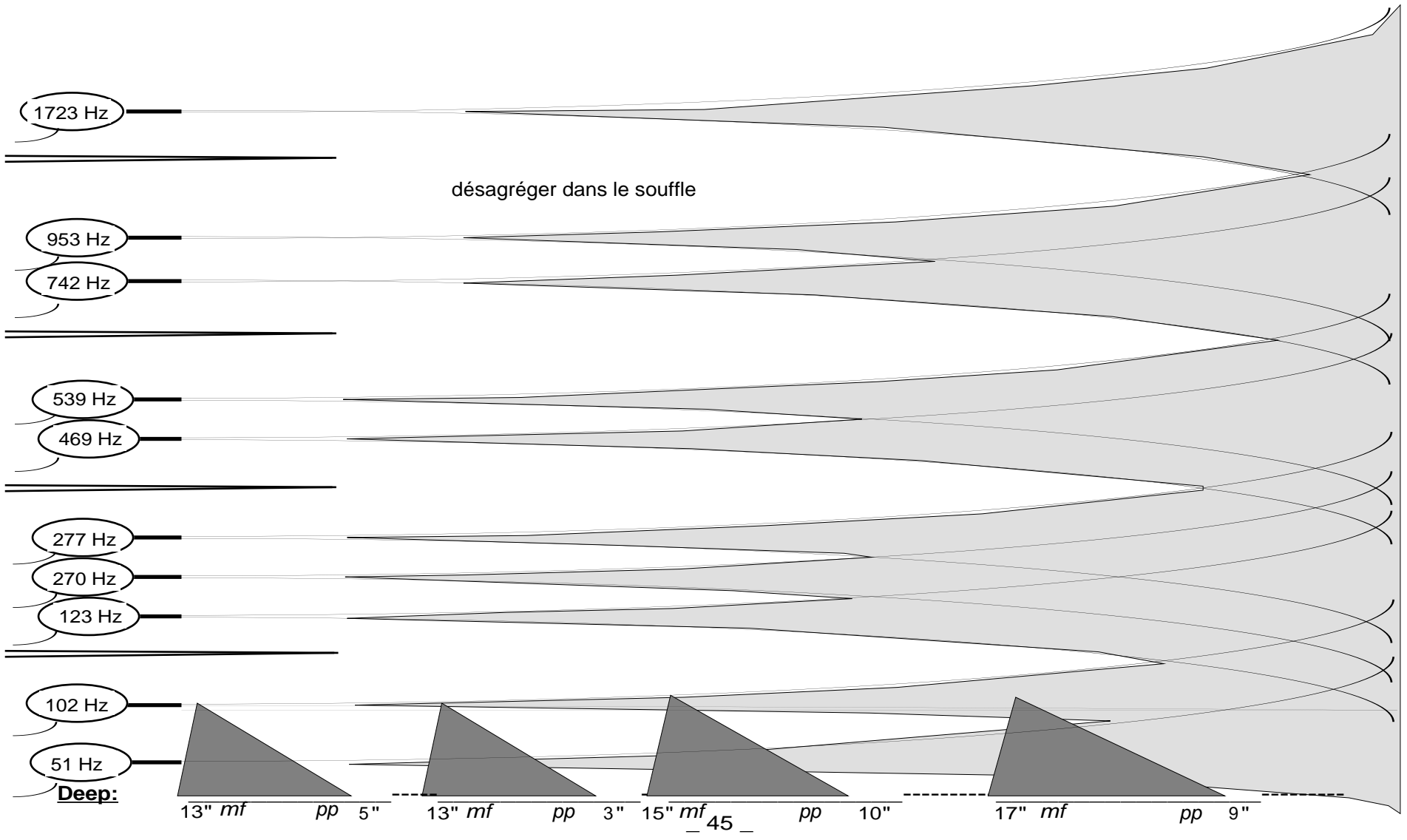
\_ 44 \_

5" *mf* 2"

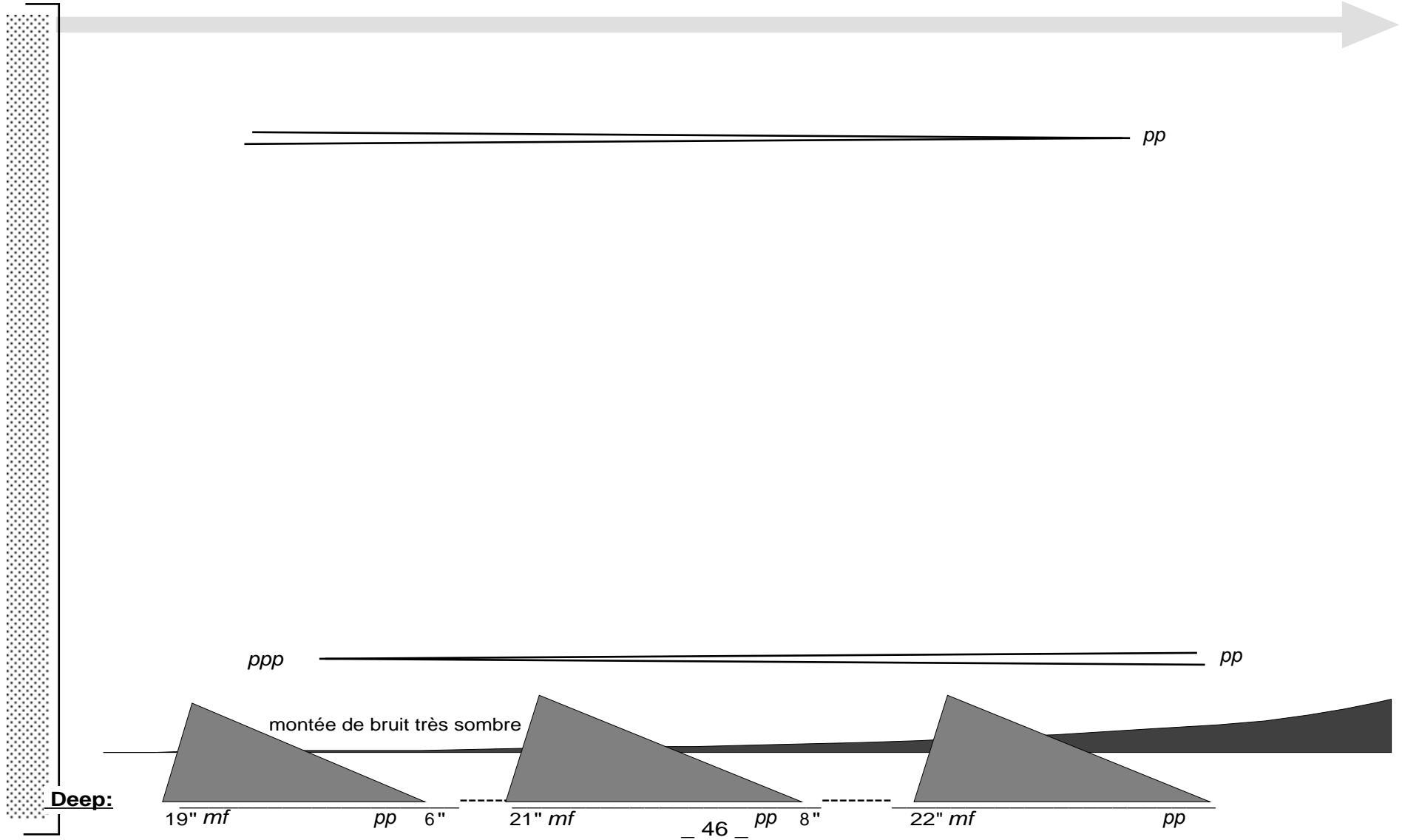
5" *mf* 9"

7" *mf pp* 5"





souffle très doux, partout





*pp*

*pp*

