

Free in the knowledge

E 1 F# 2 G 3 A 4 B 5 C 6 D 7

Intro | I- Em | V- Bm | <sup>b VII<sup>07</sup></sup> Cmaj7 | 1-5-6

Verso | I- Em | <sup>III</sup> A | <sup>b VII<sup>07</sup></sup> D | <sup>III sus</sup> Gsus2 | 1-4-7-3  
*Em, Voz solo (f, g, #11, 13)*

Coro | V- Bm | <sup>b VII<sup>07</sup></sup> Cmaj7 | V- Bm | <sup>IV m3</sup> Am7/x | V- Bm | <sup>b VII<sup>07</sup></sup> Cmaj7

V- Bm | <sup>IV-2</sup> Am7 | V- Bm | <sup>b VII<sup>07</sup></sup> C |  
 S-G  
 S-G  
 S-G  
 S-G  
 S-G

Puente pt 1 = Intro x 4 | Puente 2: <sup>IV-2</sup> Am7 | <sup>V-</sup> Bm | <sup>b VII<sup>07</sup></sup> C | <sup>b VII</sup> D | 4-5-6-7

Outro <sup>IV-2</sup> Am7 | <sup>V-</sup> Bm | <sup>b VII<sup>07</sup></sup> C | / | 4-5-6

1234567

MAY  $C_{maj}^7$   $D_{maj}^7$   $E_{maj}^7$   $F_{maj}^7$   $G_{maj}^7$   $A_{maj}^7$   $B_{maj}^7$

Jonico dorico II Lidio Mixo eolico Locrio

9,13 9,11,13 9,11,13 9,11,13 9,13 9,11 11,13

1234567

M. MEL  $C_{maj}^7$   $D_{maj}^7$   $E_{maj}^7$   $F^7$   $G^7$   $A_{maj}^7$   $B_{alt}^7 (B_{maj}^7)$

dorico b9 Lidio mixo Lidio b9 Alt DOM.

9,11,13 11,13 9,11 9,11,13 9,13 9,11,13 9,11,13

1234567

M. ARMO  $C_{maj}^7$   $D_{maj}^7$   $E_{maj}^7$   $F_{maj}^7$   $G^7$   $A_{maj}^7$   $B^7$

Jonico b6 Dorico b9 Lidio b9 Alt b6

9,11 9,11,13 9 9,11,13 9,13 9,11,13 11,13

1234567

M. NAT  $C_{maj}^7$   $D_{maj}^7$   $E_{maj}^7$   $F_{maj}^7$   $G_{maj}^7$   $A_{maj}^7$   $B^7$

eolico Lidio Jonico Dorico Lidio mixo

9,11 11 9,13 9,11,13 9,11,13 9,11,13 9,13

* Resete	2-5-1	* $\mathbb{V}^7/\mathbb{I}^7$	2-5-1	* Resete menor	2-5-1
M. MAY	M. MEL	M. ARMO	M. NAT		
$D_{maj}^7$ $G^7$ $C_{maj}^7$	$D_{maj}^7$ $G^7$ $C_{maj}^7$	$D_{maj}^7$ $G^7$ $C_{maj}^7$	$D_{maj}^7$ $G^7$ $C_{maj}^7$		
dorico mixo Jonico	dorico b9 mixo m. Mel	Locrio b9 mixo m. Armo	Locrio b9 mixo m. Nat		
9,11,13 9,13 9,13	11,13 9,13 9,11,13	11,13 9,13 9,11	11,13 9,13 9,11		

Dominantes secundarias

$\mathbb{V}^7/\mathbb{II}^7$   $A^7$   $D_{maj}^7$

$\mathbb{V}^7/\mathbb{III}^7$   $B^7$   $E_{maj}^7$

$\mathbb{V}^7/\mathbb{IV}^7$   $C^7$   $F_{maj}^7$

$\mathbb{V}^7/\mathbb{V}^7$   $D^7$   $G^7$

$\mathbb{V}^7/\mathbb{VI}^7$   $E^7$   $A_{maj}^7$

Subs

Sub  $\mathbb{V}^7/\mathbb{II}^7$   $E_{b}^7$   $D_{maj}^7$

Sub  $\mathbb{V}^7/\mathbb{III}^7$   $F^7$   $E_{maj}^7$

Sub  $\mathbb{V}^7/\mathbb{IV}^7$   $G_{b}^7$   $F_{maj}^7$

Sub  $\mathbb{V}^7/\mathbb{V}^7$   $A_{b}^7$   $G^7$

Sub  $\mathbb{V}^7/\mathbb{VI}^7$   $B_{b}^7$   $A_{maj}^7$

ed scale = Lidio b9

9,11,13

Resolven Mayor

$\mathbb{V}^7/\mathbb{II}^7$   $\mathbb{V}^7/\mathbb{V}^7$   $\rightarrow$  Dorico mixo

9,11,13 9,13

Resolven menor

$\mathbb{V}^7/\mathbb{II}^7$   $\mathbb{V}^7/\mathbb{VI}^7$   $\rightarrow$  mixo

Locrio b9 b9 b9

9,13 9,13 9,13

$\mathbb{V}^7/\mathbb{II}^7$   $\rightarrow$  dorico b9 mixo

11,13 9,13



## Reggae (mento [rus])

- 50's / 60's
- Puro al Reggae 15%
- Ejemplos

- Harry Belafonte (Banana Boat song day 0)  
(Jamaica Farewell)

- Count Cacher Calypso Quintet (Winter in Garden)

## Regular to Sync

tarifas

↳ TV

↳ TV abierta / Cable subtel: USD \$ 2,500  
\$ 5,000

(Año)

Programa en Extranjero USD \$ 15,000

Video documental: Pago a local \$ 8,500 - 10,000

Theme Song: \$ 4,000 - 10,000

Portada Comun (América, Canada, Brasil) \$ 1,000 - \$ 3,000

## Comerciales y Videos

↳ Comercial (Año) \$ 75,000 - 500,000

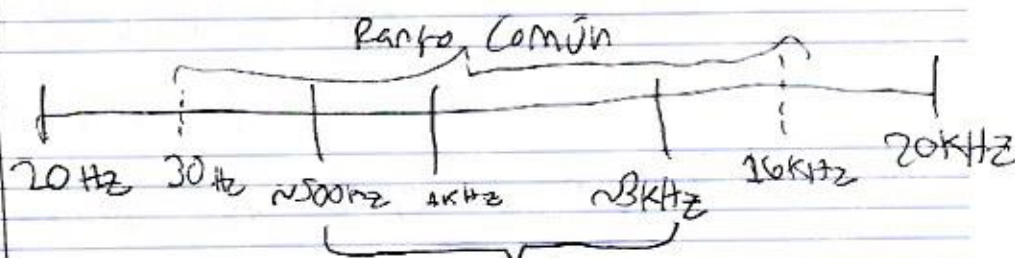
↳ Videos \$ 5,000 - 6,000

# audio-metria "250-500"

500 Hz    1000 Hz    5000 Hz    250 Hz    2500 Hz  
 ↓           ↓           ↓           ↓           ↓  
 Común    Blip de Cite    ~~Fructe~~ ~~don~~ ~~mas~~ ~~alto~~    "Bajo"    MK ~~←~~ Cate Mes

- ① 5000, 2500
- ② 1000
- ③ 2500, 5000
- ④ 500
- ⑤ 250
- ⑥ 1000
- ⑦ 5000
- ⑧ 250
- ⑨ 1000
- ⑩ 2500, 5000

ING. 20 Jun



Zona donde ~~se oye~~  
 Percibimos mas  
 detalle  
 (sensibilidad  
 auditiva)

~~Fluctuaciones~~

Fluctuaciones  
 Munsson → Curvas Iso Fónicas  
 Curvas Fluctuaciones-Munsson

Robinson  
 + Ranson → Estándar (curvas Iso Fónicas)

ISO 226 = equal loudness level graph

mas sensible a ~ 2000 - 5000



Curvas de ponderación  
FREQ - AMP

Ruido de Piso

3 curvas

A Baja 35-45  
 B media 45-80  
 C alta 80-120

- eléctrico
- acústico
- digital

Curvas (dB SPL)

F <sub>q</sub>	A	B	C
31.5	-39	-17	-3
63	-26	-9	-1
125	-16	-4	0
250	-9	-1	0
500	-3	0	0
1000	0	0	0
2000	+1	0	0
4000	+1	-1	-1
8000	+4	-3	-3

Handwritten musical notation for a sequence of chords, likely for guitar, organized in two systems. The notation includes chord names, scale degrees, and specific notes.

**System 1:**

- Row 1:  $I^7$  (Fm<sup>7</sup>, notes: eolito (a, 11)),  $II^7$  (Gm<sup>7</sup>, notes: locro 4b (11, 13)),  $III^7$  (C<sup>7</sup>, notes: mixo b9 b13),  $I^7$  (Fm<sup>7</sup>),  $IV^7$  (Cm<sup>7</sup>, notes: locro 4b 11, 13),  $V^7$  (F<sup>7</sup>, notes: mixo a b13 (b9 b13)).
- Row 2:  $I^7$  (Bbm<sup>7</sup>, notes: Domo a, 11, 13),  $II^7$  (C<sup>7</sup>),  $III^7$  (Fm<sup>7</sup>),  $IV^7$  (Cm<sup>7</sup>).

**System 2:**

- Row 1:  $I^7$  (Abm<sup>7</sup>, notes: Domo a, 11, 13),  $II^7$  (Db<sup>7</sup>, notes: locro b7 a, #11, 13),  $III^7$  (Gm<sup>7</sup>, notes: mixo 9, 13),  $IV^7$  (C<sup>7</sup>),  $V^7$  (Fm<sup>7</sup>),  $VI^7$  (Gb<sup>7</sup>, notes: locro b7 (a, #11, 13)).

Example 2

Handwritten musical notation for a sequence of chords, organized in two systems. The notation includes chord names, scale degrees, and specific notes.

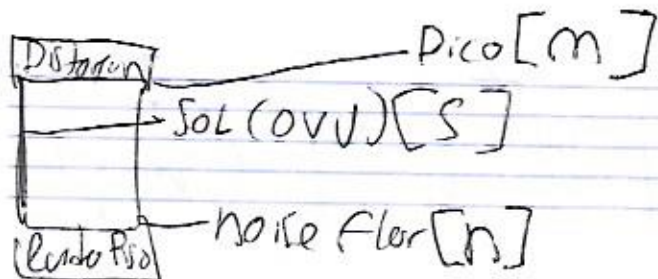
**System 1:**

- Row 1:  $I^7$  (Am<sup>7</sup>, notes: eolito (a, 11)),  $II^7$  (E<sup>7</sup>, notes: mixo b9, b13),  $III^7$  (Am<sup>7</sup>),  $IV^7$  (A<sup>7</sup>).
- Row 2:  $I^7$  (Dm<sup>7</sup>, notes: Domo a, 11, 13),  $II^7$  (Fm<sup>7</sup>, notes: locro a, #11, 13),  $III^7$  (F#m<sup>7</sup>, notes: mixo 9, 11 b13),  $IV^7$  (G<sup>7</sup>, notes: mixo 9, 13).

**System 2:**

- Row 1:  $I^7$  (Cmaj<sup>7</sup>, notes: locro Argy a, #11),  $II^7$  (A/C#),  $III^7$  (Dm<sup>7</sup>),  $IV^7$  (B/D#),  $V^7$  (E<sup>7</sup>).





Rango dinámico

m - n

Head Room

m - s

Signal / Noise Ratio

S - n

CM

$b \text{ VI} \Delta 7$	$\text{IV}^7$	$\text{I}^6$	$\text{IV}^7/\text{IV}^7$
$A \text{ } b^6$ $i^{\text{do}} \#9$ $\#9, \#11, 13$	$A^7$ $m^{\text{do}}$ $b^9, b13$	$Dm^6$ $m^{\text{do}}$ $9, 11, 13$	$A_m^7 b^6$ $D^7 b^9$ $i^{\text{do}} b^6$ $m^{\text{do}} b^9 b^6$ $11, 13$
$\text{IV}^7$ $Gm^7$ $\text{D}^{\text{do}}$ $9, 11, 13$	$\# \text{IV}^7 \Delta 7 (E^7)$ $G \# \Delta 7$ $A \text{ } b^6 b^7$ $b13$	$b^{\text{VI}}$ $F/A$ $\text{J}^{\text{do}}$ $9, 13$	$b^{\text{VI}}$ $Bbm^7$ $i^{\text{do}}$ $9 \#11, 13$
$b^{\text{VI}} \text{Im}^7$ $Ebm^7$ $\text{Im}^{\text{do}}$ $i^{\text{do}}$ $9, \#11, 13$	$Dm^6$	<del><math>Gm^7</math></del>	$E_m^7 b^6$ $A^7$ $\text{IV}^7$ $i^{\text{do}} b^6$ $m^{\text{do}} b^9 b^6$ $11, 13$
$\text{IV}^7/b^{\text{VI}}$ $C^7 F^7$ $\text{D}^{\text{do}}$ $m^{\text{do}}$ $9, 11, 13$ $9, 13$			

# Isnt Shelby

(A)  $C\#m7$  |  $F\#7$  |  $B7$  |  $E\#m7$  |

$9, 11, 13$  |  $m, 10, 13$  |  $V$  |  $I$

(B)  $A\#m7$  |  $G\#7$  |  $C\#m7$  |  $F\#7$  |

$1, 10, 11, 13$  |  $m, 10, 13$  |  $V7/VII7$  |  $C\#m7$  |  $F\#7$  |

$6, 9$  |  $(b13) \leftarrow \#5$

$B7$  |  $E\#m7$  |

## Reggae de Jamaica

- Styl:
- GOS
  - emulacao de RnB
  - Exponentes: Derrick Morgan, Toots Hibbert, Justin Hinds, Prince Buster
  - Prince Buster - Madness
  - One step beyond - madness
  - Derrick Morgan: the conqueror
  - Millie Small: My Boy Lollipop

## Rocksteady

- 1966 Jamaica | Carlos, McSteak, Perryones
- Sister Ray
  - Breckers
  - Johnny Nash: Hold me tight



Jun 27

5KHz 2.5K 1K 500Hz 250Hz

Jun 27

- 1 2SK/5K
- 2 4K
- 3 250
- 4 5K
- 5 500Hz

- 6 1K
- 7 5K
- 8 2SK
- 9 1K
- 10 280

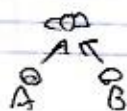
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Sensaciones Psicoacusticas

• Efecto Hass

- percepción
- interacción
- sensación

- Nivel de tiempo (fase)



helmut Hass

- 30 ms como ventana  
(25-30)

Refuerzo Sonoro

en ms

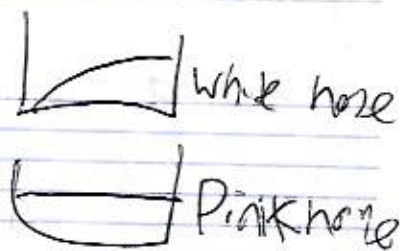
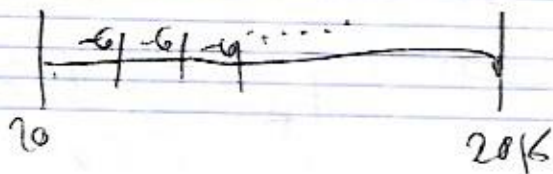
Ganancia (Max)

mezcla (RF)

Curva Hass

• Enmascaramiento

se pierden 6dB cada octava



- mecánica de
- Fletcher

IV <sup>-7</sup>	V <sup>7</sup>	I <sup>-7</sup>	V <sup>7</sup> /b VII
B <sup>-7</sup> Dórico a, 11, 13	C <sup>7</sup> mixo b9, b13	F <sup>m7</sup> eólico a, 11	Ebm <sup>7</sup> Ab <sup>7</sup> Dórico a, 11, 13 mixo 9, 11, 13
G <sup>m</sup> II <sup>m</sup> 9b5 loco b9 a, 11, b13	C <sup>7</sup>	F <sup>m7</sup>	Bb <sup>7</sup> #11 loco b9 a, #11, 13
C/Ab b <sup>7</sup> 11m #11 Lidro aeg a, #11	C/Eb b VII <sup>-7</sup> Sim dom b9, #9, #11, 13	Dbm <sup>7</sup> C <sup>7</sup> b VI <sup>m</sup> 11m Lidro a, #11, 13	Cm <sup>7</sup> B <sup>7</sup> Dórico a, #11, 13

Sim di

1 2 3 4 b5 b6 bb7 7

IN6

125 250 500 1000 2.5K SK 10K

Prilo ACC.

Efecto Doppler

$$F_R = F_E \left( \frac{V_s \pm V_r}{V_s \pm V_E} \right)$$

frente  
Receptor

frente  
Emisor

$$\lambda = V_s / F_{\text{freq}}$$

$$V_s = (TEMP)(.6) + REF$$

(3) 1000

(9) SK + 10K

(5) SK / 2K

(6) 2.5K (9)


(3) 500? ✓

(8) 2.5K # SK (10K)

(9) 250 → (125)

(10) 1000 ✓

(11)  white

(12)  pink



(300 Hz)  
Emiter  
emission

(E)

Receptor

← (R)

30 m/s

TEMP = 21°C

$$F_R = F_E \left( \frac{V_s \pm V_e}{V_s \pm V_e} \right)$$

~~F<sub>R</sub>~~

$$V_s = (21^\circ\text{C} / (0.6)) + 331.4$$

$$V_s = 344 \text{ m/s}$$

$$F_R = 300 \text{ Hz} \left( \frac{344 \text{ m/s} + 30 \text{ m/s}}{344 \text{ m/s} + 0 \text{ m/s}} \right)$$

$$F_R = 300 \text{ Hz} \left( \frac{374}{344} \right)$$

$$F_R = 300 \text{ Hz} (1.08)$$

$$F_R = 324.16 \text{ Hz}$$

← (E) 20 m/s

300 Hz

$V_s = 340 \text{ m/s}$

(R)

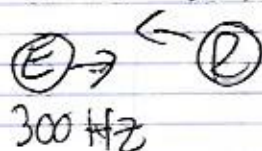
$$F_R = F_E \left( \frac{V_s \pm V_R}{V_s \pm V_e} \right)$$

$$F_R = 300 \left( \frac{340 + 0}{340 - 20} \right)$$

$$F_R = 300 \left( \frac{340}{320} \right)$$

$$F_R = 318.75$$

20 m/s 35 m/s



$$F_R = F_E \left( \frac{V_s \pm V_R}{V_s \pm V_E} \right)$$

$$V_s = 340$$

$$F_R = 300 \left( \frac{340 - 35}{340 - 20} \right)$$

$$F_R = 300 \left( \frac{305}{320} \right)$$

$$F_R = 300(0.95)$$

$$F_R = 285 \text{ Hz}$$

Batimento

Amp Modulation  
En Freq constant

$$P_{\text{enato}} = \frac{1}{F_{\text{freq}}}$$

$$F_{\text{Bat}} = F_1 - F_2$$

ING Repaso 11 Jul 22

①  $\lambda = 256 \text{ Hz} @ 18$

$$\lambda = \frac{v}{f_{\text{eq}}}$$

$$\lambda = \frac{(18)(0.6) + 331.4}{f_{\text{eq}}} \quad \text{REF}$$

$$\lambda = \frac{(18)(0.6) + 331.4}{256}$$

$$\lambda = 1.33 \text{ m}$$



②  $P_a = 0.0035$

Ref  $dB_v = 0.775 V$

$dB_v = ?$

$dB_v = ?$

$dB_w = ?$

Ref  $dB_v = 1 V$

Ref  $dB_w = 1 W$

$P_a \rightarrow dB_{SPL}$

$dB_{SIL} = dB_{SPL} - 10 \log(1000)$

$SPL = 20 \log \left( \frac{P_a}{2 \times 10^{-5}} \right)$

$SPL = 20 \log \left( \frac{0.0035}{2 \times 10^{-5}} \right)$

$SPL = 44.8 \text{ dB}_{SPL}$

$dB_v = 20 \log \left( \frac{44.8 \text{ SPL}}{0.775 V} \right)$

$dB_v = 20 \log (57.8)$

$dB_v = 35.23 \text{ dB}_v$

~~$dB_w = 20 \log \left( \frac{P_a}{2 \times 10^{-5}} \right)$~~

~~$= 20 \log \left( \frac{44.8 \text{ dB}_{SPL}}{2 \times 10^{-5}} \right)$~~

~~$= 20 \log (2,240,000)$~~

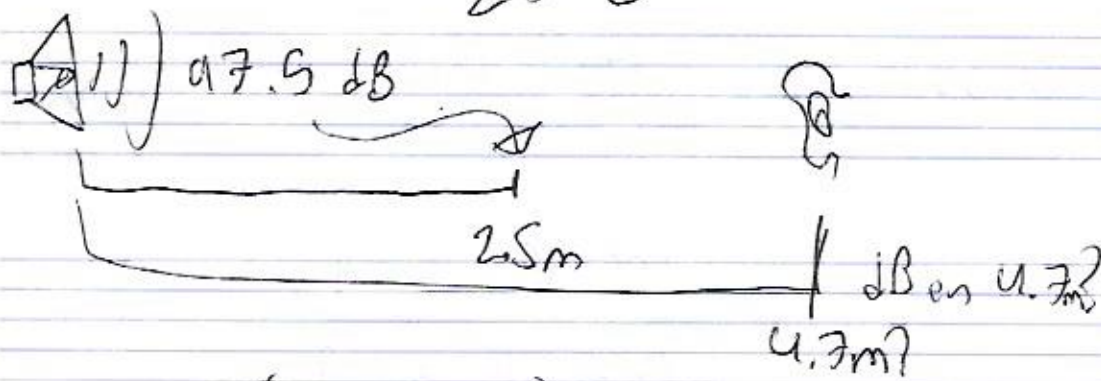
~~$dB_w = 127 \quad dB_w = 20 \log \left( \frac{P_a}{1} \right)$~~

~~$127 \text{ dB}_w$~~

$dB_v = 20 \log \left( \frac{44.8}{1} \right)$

$= 33 \text{ dB}_v$

27°C



~~$$20 \log \left( \frac{4.7}{2.5} \right)$$

$$21.4$$~~

$$20 \log \left( \frac{2.5}{4.7} \right) = -5.4$$

~~$$97.5 - 21.4 = 76.1$$~~

$$97.5 - 5.4 = 92.1 \text{ dB SPL}$$

Tonidad Menor ~~men NAT~~ men NAT  
 men ARMO  
 men MELO

Tonco menor: Diferentes Funks Para "1"

$I_{m^7}$  men NAT

$I_{m^6} / I_{m^7}$  men MELO

$I_{m^6} / I_{m^7}$  DONCO



## Segundo Grado

$\text{II}^{\text{m}} \#5$  ~~men.~~ NAT

$\text{II}^{\text{m}} \#65$  men. ARMO

(lido 6)

## Tercer Grado

$\text{bIII}^{\text{m}} \#7$  men. NAT

$\text{bIII}^{\text{m}} \#7 \#5$  m. MEL

(lido Aug)

## Cuarto Grado

$\text{IV}^{\text{m}} \#7$  men. NAT

$\text{IV}^{\text{m}} \#7$  m. melodien  
(lido 67) men. MEL

## Quinto Grado

$\text{V}^{\text{m}} \#7$  men. NAT

$\text{V}^{\text{m}} \#7$  men. ARMO  
(mito 69 613)

## Sexto Grado

$\text{V}^{\text{m}} \#7$  men. MEL  
(mito 9, 613)

$\text{bVI}^{\text{m}} \#7$  men. NAT

$(\text{bVI}^{\text{m}} \#7 \#9)$  men. ARMO  
(lido 9)

$\text{VI}^{\text{m}} \#65$  m. MEL  
(lido 69)

## Septimo Grado

$\text{bVII}^{\text{m}} \#7$  men. NAT

$\text{VII}^{\text{m}} \#7$  men. ARMO

$\text{VII}^{\text{m}} \#65$  men. MELO

A# Dom (69, #9, 65, 613)

$\#11 \#5$

$$\text{G} \#5 \#9 = \text{G} \#613 \#9$$

↑  
GALT

# Dominantes Secundarias en Menor (en A menor)

① No es un Dominante <sup>Secund.</sup>  $E7 \rightarrow A m7$

②  $\frac{V7}{II m7 b5}$   $F\# \rightarrow B m7 b5$   
(no existe)

dom. in función de dom.  
③  $\left( \frac{V7}{bIII maj7} \right)$   $G7 \rightarrow C maj7$   
mixo a, b3

④  $\frac{V7}{II m7}$   $A7 \rightarrow D m7$   
mixo a, b3

⑤  $\frac{V7}{IV7 \#m7}$   $B7 \rightarrow E m7$   
mixo b9, b3

⑥  $\frac{V7}{~~IV7~~ bVII maj7}$   $C7 \rightarrow F maj7$   
mixo a, b3

dom. in función de dom.  
⑦  $\left( \frac{V7}{bVII7} \right)$   $D7 \rightarrow G7$   
mixo a, b3



# Project Idea #1

$|D_m^{b13}| C^9 |A_m^7| B6^{13} C^7 |$

$\uparrow$   
 $C^1$

~~$|D_m^{b13}| A_m^7$~~

$\Sigma$   
 $RM2$

$|B_m | F\#m | \Rightarrow | C\#m | G\#m | \text{ ~~G\#m~~ }$

$D_m \rightarrow E^{b5} / D \rightarrow A^7 \rightarrow D D_m$

$12 | F\#m | E D |$

$C\# \curvearrowright B \curvearrowright E \checkmark \curvearrowright D \text{ --- } C\#$

$B_m | D | A | G | | \text{ ~~F\#m^7 C\#^7 E\#m^7 D\#m^7~~ }$

$II_m^7 \text{ IV } I \text{ bVII}$

# Pepezo Efectos psico acusticos

Hass: • dir. entre 25ms - 30ms  
• filtro de peine

Doppler: aparente cambio de tono (en movimiento)

$$F_R = F_E \left( \frac{V_s \pm V_R}{V_s \pm V_E} \right)$$

Frente Receptor      Frente Emisor      Vel Sonda      Vel Receptor      Vel Emisor

alera	Receptor
aleya	Suma

$$V_s = (TEMP)(0.6) + REF$$

$$REF = 331.4$$

20ms  $F_{eq} = 850Hz$   
 $F_E \rightarrow F_R$   $344ms$   $Vel\ sonda$

$$F_E \rightarrow \leftarrow F_R (-)$$

$$F_E \leftarrow \rightarrow F_R (+)$$

~~$$F_E \rightarrow \leftarrow F_R (-)$$~~

~~$$F_E \leftarrow \rightarrow F_R (+)$$~~

$$F_E \rightarrow F_R$$

no mov

$$F_R = F_E \left( \frac{V_s \pm V_R}{V_s \pm V_E} \right)$$

$$F_R = F_E \left( \frac{344 + 20}{344 + 0} \right)$$

$$F_R \rightarrow F_E (-)$$

no mov

$$F_R = F_E (1.0581)$$

$$F_R = 850Hz (1.0581)$$

$$F_R \rightarrow F_E (+)$$

no mov.

$$F_R = 899.385$$



Batimento

$$F_{\text{freq } 1} - F_{\text{freq } 2} = F_{\text{freq Rate}}$$

"Rate"  
de Batimento

longitud de onda

$$F_{\text{eq}} = 456 \text{ Hz} \quad \lambda = \frac{\text{Vel sonido}}{F_{\text{eq}}}$$

$$T_{\text{emp}} = 18^\circ$$

$$\lambda = ?$$

$$\lambda = \frac{(18)(10.6) + 331.4}{456} = \cancel{0.75} 0.75$$

Umbral de audición

$$0.00002 \text{ Pa} \rightarrow 20 \mu\text{Pa} - 20 \text{ Pa}$$

Umbral Dolor

$$120 \text{ dB} \rightarrow 20 \text{ Pa}$$

Curvas Isofonicas

"mini" Reparo CM

$V^3/II_m^3$   $A^3$   $D^3/IV_m^3$   
En MAJ en min

mido q 613



# ALL OF ME

(A) IMAJ7

$C_{maj}7$ Jonico (9,13)	% C Jonico (9,13)	$V^7/VIm7$ $E7$ Mixo 6 9 13	%
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$V^7/VIm7$ $A7$ mixo 9 13	% A mixo 9 13	$IIIm7$ $D^-$ Dorco (9,11,13)	% D dorco (9,11,13)
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$V^7/VIm7$ $E7$ mixo 9, 13	% E mixo 9 13	$VIm7$ $A^-$ Edico (9,11)	% A Edico (9,11)
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$V^7/V$ $D7$ mixo 9 13	% D mixo 9 13	$IIIm7$ $D^-7$ Dorco (9,11,13)	$V7$ $G7$ mixo
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(B) IMAJ7

$C_{maj}7$ Jonico (9,13)	%	$V^7/VIm7$ $E7$ mixo 6 9 13	%
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$V^7/VIm7$ $A7$	$IIIm7$ $Fm$ Im Edico (Dorco [9,13])	$IIIm7$ Dorco $D^-$	%
$IVmaj7$ $F$ Idico	$IVIm7$ $Fm$ Im Edico (Dorco [9,13])	$Im7$ Dorco $C_{maj}7$ $E7$	$V^7/VIm7$ $A7$ mixo 9, 13

$D^-7$	$G7$	$C6 (E^b)$	
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