

Fig 6b



HARMONIQUES NATURELLES Hz

En partant sur le fait que la résonance naturelle (les harmoniques) de chaque notes sont relativement tous des multiples de chacun d'eux et la fréquence est donnée par l'opération arithmétique simple de multiplication du son fondamental par le numéro du rang de celui-ci \*\*

Rang	1	2	3	4	5	6	8	9	10	12	12	40	15	16																																																																																																																																																																							
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264	275	287,22	293,85	312,889	330	352	366,667	375,667	391,111	422,4	440	469,333	488,80	508																																																																																																																																																																							
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66	68,8	70,4	73,333	74,250	78,22	82,50	88	91,667	94	98	106	110	117,333	122,22																																																																																																																																																																							
33	34,375	35,2	36,66667	37,125	39,1	41,25	44	45,8	46,933	48,8	52,8	55	58,6667	61,111																																																																																																																																																																							
16,5	17,18750	17,6	18,33333	18,5625	19,6	20,6	22	22,9	23,467	24,444	26,40	27,50	29,3333	30,6																																																																																																																																																																							
8,3	8,6	8,8	9,16667	9,28125	9,8	10,3	11,0	11,5	11,733	12,222	13,2	13,75	14,667	15,3																																																																																																																																																																							
<b>Fondamental</b>	<table border="1"> <thead> <tr> <th>Dob</th> <th>Reb</th> <th>Lab</th> <th>Mib</th> <th>Reb</th> <th>Lab</th> <th>Fa</th> <th>Reb</th> <th>Lab</th> <th>Sib</th> <th>Lab</th> <th>Sib</th> <th>Lab</th> <th>Reb</th> <th>Lab</th> </tr> </thead> <tbody> <tr> <td>264</td> <td>275</td> <td>281,6</td> <td>293,333</td> <td>297,000</td> <td>312,9</td> <td>330</td> <td>352</td> <td>366,67</td> <td>375,5</td> <td>391,11</td> <td>422,4</td> <td>440</td> <td>469,33</td> <td>488,80</td> </tr> <tr> <td>792</td> <td>825</td> <td>844,8</td> <td>880</td> <td>891</td> <td>938,667</td> <td>990</td> <td>1056</td> <td>1100</td> <td>1126,4</td> <td>1173</td> <td>1267,2</td> <td>1320</td> <td>1408</td> <td>1467</td> </tr> <tr> <td>1320</td> <td>1375</td> <td>1408</td> <td>1467</td> <td>1485</td> <td>1564,44</td> <td>1650</td> <td>1760</td> <td>1833</td> <td>1877</td> <td>1956</td> <td>2112</td> <td>2200</td> <td>2347</td> <td>2444</td> </tr> </tbody> </table>														Dob	Reb	Lab	Mib	Reb	Lab	Fa	Reb	Lab	Sib	Lab	Sib	Lab	Reb	Lab	264	275	281,6	293,333	297,000	312,9	330	352	366,67	375,5	391,11	422,4	440	469,33	488,80	792	825	844,8	880	891	938,667	990	1056	1100	1126,4	1173	1267,2	1320	1408	1467	1320	1375	1408	1467	1485	1564,44	1650	1760	1833	1877	1956	2112	2200	2347	2444	Reb	275																																																																																																									
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792	825	844,8	880	891	938,667	990	1056	1100	1126,4	1173	1267,2	1320	1408	1467																																																																																																																																																																							
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<b>Soi 297</b>	<table border="1"> <thead> <tr> <th>Re</th> <th>F1</th> <th>Octave</th> <th>Quinte</th> <th>Octave</th> <th>Tierce</th> <th>Quinte</th> <th>Octave</th> <th>Seconde</th> <th>Tierce</th> <th>Quarte</th> <th>Quinte</th> <th>Sixième</th> <th>Septième</th> <th>Octave</th> </tr> <tr> <th>Re</th> <th>Re</th> <th>Lab</th> <th>Re</th> <th>Lab</th> <th>Re</th> <th>Lab</th> <th>Re</th> <th>Mi</th> <th>Re</th> <th>Lab</th> <th>Re</th> <th>Lab</th> <th>Re</th> <th>Lab</th> </tr> </thead> <tbody> <tr> <td></td> <td>17,1</td> <td>34,2</td> <td>51,3</td> <td>68,4</td> <td>85,5</td> <td>102,6</td> <td>136,8</td> <td>153,9</td> <td>171,0</td> <td>187,1</td> <td>211,2</td> <td>235,3</td> <td>259,4</td> <td>283,5</td> </tr> </tbody> </table>														Re	F1	Octave	Quinte	Octave	Tierce	Quinte	Octave	Seconde	Tierce	Quarte	Quinte	Sixième	Septième	Octave	Re	Re	Lab	Re	Lab	Re	Lab	Re	Mi	Re	Lab	Re	Lab	Re	Lab		17,1	34,2	51,3	68,4	85,5	102,6	136,8	153,9	171,0	187,1	211,2	235,3	259,4	283,5	Dob	278,438																																																																																																																								
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<b>Soi 488</b>	<table border="1"> <thead> <tr> <th>Si</th> <th>F1</th> <th>Octave</th> <th>Quinte</th> <th>Octave</th> <th>Tierce</th> <th>Quinte</th> <th>Octave</th> <th>Seconde</th> <th>Tierce</th> <th>Quarte</th> <th>Quinte</th> <th>Sixième</th> <th>Septième</th> <th>Octave</th> </tr> <tr> <th>Si</th> <th>Si</th> <th>Lab</th> <th>Si</th> <th>Re#</th> <th>Si</th> <th>Lab</th> <th>Si</th> <th>Re#</th> <th>Si</th> <th>Lab</th> <th>Si</th> <th>Re#</th> <th>Si</th> <th>Lab</th> </tr> </thead> <tbody> <tr> <td></td> <td>61,875</td> <td>123,750</td> <td>185,625</td> <td>247,500</td> <td>309,375</td> <td>371,250</td> <td>495,000</td> <td>556,875</td> <td>618,750</td> <td>660</td> <td>742,500</td> <td>825,000</td> <td>928,125</td> <td>990</td> </tr> </tbody> </table>														Si	F1	Octave	Quinte	Octave	Tierce	Quinte	Octave	Seconde	Tierce	Quarte	Quinte	Sixième	Septième	Octave	Si	Si	Lab	Si	Re#	Si	Lab	Si	Re#	Si	Lab	Si	Re#	Si	Lab		61,875	123,750	185,625	247,500	309,375	371,250	495,000	556,875	618,750	660	742,500	825,000	928,125	990	La#	464,063																																																																																																																								
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Si	F1	Octave	Quinte	Octave	Tierce	Quinte	Octave	Seconde	Tierce	Quarte	Quinte	Sixième	Septième	Octave																																																																																																																																																																							
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	61,111	122,222	183,333	244,444	305,556	366,667	488,889	550	611,111	631,852	733,333	814,815	916,667	977,778																																																																																																																																																																							
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\* Référence: Guide illustré de la musique par Ulrich Michels  
\*\* Référence: Musique et tempérament par Pierre-Yves Asselin

\*\*\*\* Meilleurs choix naturels plus de correspondance... à remarquer que l'échelle tempérée fait fausement naturellement