

Tuning for Gamelan Si Betty

Expected Frequencies, Mapping to 12 Tone Equal Temperament (based on A=440hz) and Measured Frequencies

Pitch	Harmonic	Expected Frequency	12TET	Measured Frequency	Difference (cents)
Laras Pelog	Fundamental = 24.44 Hz	in Hz	+/- difference in cents	in Hz	assuming unstretched octaves
1	12	293.3	D -2	587.2	+1.7
2	13	317.8	D# +47	653.3	+47.5
3	14	342.2	F -35	685.4	+2.4
4	17	415.55	G# +1	832.3	+2.2
5	18	440.0	A	881.8	+3.4
6	19	464.4	A# -6	929.7	+1.6
7	21	513.3	C -33	1029.3	+4.4
Laras Slendro	Fundamental = 4.83796Hz				
5	42	203.2	G# -37.5	407.1	+2.8
6	48	232.2	A# -6	465.0	+2.1
1	56	270.9	C +45	542.9	+3.4
2	63	304.8	D# -35	610.5	+2.5
3	72	348.3	F -4	697.8	+2.9
5	84	406.4	G# -38	814.5	+3.5
6	96	464.4	A# -6	930.3	+2.7
1	112	541.9	C# -40	1085.1	+2.0