

XIII. Psithurism

For Chrysalis II
Tablature Score

♩ = 56

I

R. H.

Chrysalis II

mp

L. H.

let ring

4

7

10

13

71

63 70 66 59 63 67 71 66 2

55 59 63 74 70

75 71 67 63

71 67 63 63 59

mp

16

63 70 66 62 58 59 63 67 79

59 63 67 70

66 59 63 67 62 79 70 66 62

56 60

56 60 67 63

67 63

19

54 55 59 54 55 59

50 51 55 59 63 67 74 70 66

54 55 59 54 55 59

56 56

63 59

56 56

22

54 55 59 63 67

71 78 74 70 55 62 58 51 55 59

63 70 66 62 55 62 58 54

56

71 67

71 67

25

50 41 45 48 51 55 41 45 48 51 55 59 63 67 79

62 63 67 70

62 63 67 70

62 63 67 70

52 56

52 56

67 63

63 59

II

31

III

37

40 ✓

43

51 58 54 48 51 55 78 74 55 59 78 74 55 62 58 51 55 59 63 67

75 71 67 71 67 71 67 63

46

71 78 74 70 71 78 74 70 58 54 50 41 45 48 51 55 41 45 48 51 55 62 58

71 67 71 67 52 56 52 56 56 60

49

f 54 71 47 48 51 58 54 50 67 50 51 55 59 63 67 58 75 58 59 63 70 66

60 64 75 71 67 63

52

62 79 62 63 67 74 82 82 78 74 66 67 71 2

67 63 59 63 59 55

55

66 67 71 75 79 74 74 75 79 2 1

63 59 55 44 48 44 48

Psithurism — Performance Practices, Musical Notations, and Tuning Tables

Although the open strings of Chrysalis I and Chrysalis II may be damped with the fingers, hands, or forearms, this composition does not require damped strings. Consequently, all strings cease to vibrate naturally. The rate at which string vibrations decay depends on the lengths of the strings and how energetically a musician plays them. Under such circumstances, playing distinct melodic passages with the right hand and subtle harmonic passages with the left hand requires full musical awareness of how the two soundboards, the resonant cavity between the soundboards, and the 82 strings per soundboard interact. In short, everything depends on controlling the amplitudes of the strings. This requires careful listening to the decay — or the ring-time — of the vibrating strings. Imagine playing a tune on a piano with the damper pedal in the down position. The musicality of such a performance would depend entirely on controlling the relative amplitudes of the right hand notes in relation to the left hand notes, and *vice versa*.

Standard musical notation includes a “let ring” symbol. In this score, this symbol applies to all left hand half notes and quarter notes. To avoid clutter, the score shows only the first occurrence of a “let ring” half note in measure one, and of a “let ring” quarter note in measure five.

In summary, when the rhythmic values of single notes in the left hand match or exceed the rhythmic values of multiple notes in the right hand, play the left hand strings with enough energy so they are audible while playing the right hand strings. In other words, play the long left hand notes with sufficient amplitude so they ring through the playing of the short right hand notes.

All the tablature scores for Chrysalis I and Chrysalis II identify musical notes with string numbers. The longest string, or string number one, passes through a hole in the middle of the axle. When one faces a soundboard, all string numbers progress in a counterclockwise direction around the circumference of the soundboard.

Psithurism for Chrysalis II does not require playing all the strings of the left and right soundboards. The tuning tables below indicate that all but one string are tuned in groups of four and three strings per note. With a smooth and timely ascending and descending playing technique, the human ear tends to hear a given group of strings as a single note.

For *Psithurism*, all the left hand strings are tuned in groups of four strings per note. With three exceptions, this also applies to the right hand strings: here two groups include three strings per note, and string number one functions as a single string. Also, a note in the score marked with an accent specifies the playing of a single string, or *any* single string that belongs to the associated group of strings.

Chrysalis II Stringing: left side, strings 1–82, music wire #7 – 0.018 in.

Chrysalis II Stringing: right side, string 1, music wire #11 – 0.026 in.

Chrysalis II Stringing: right side, strings 2–82, music wire #9 – 0.022 in.

Chrysalis II: Left Soundboard
String Numbers, Ratios, and Frequencies

75 (74, 73) 72	$\frac{3}{2}$	D ₄	294.0 cps
71 (70, 69) 68	$\frac{15}{8}$	F ₄ [#]	367.5 cps
67 (66, 65) 64	$\frac{1}{1}$	G ₄	392.0 cps
63 (62, 61) 60	$\frac{9}{8}$	A ₄	441.0 cps
59 (58, 57) 56	$\frac{5}{4}$	B ₄	490.0 cps
55 (54, 53) 52	$\frac{4}{3}$	C ₅	522.7 cps
51 (50, 49) 48	$\frac{3}{2}$	D ₅	588.0 cps
47 (46, 45) 44	$\frac{5}{3}$	E ₅	653.3 cps

Chrysalis II: Right Soundboard
String Numbers, Ratios, and Frequencies

2 (3, 4) 5	$\frac{9}{8}$	A ₃	220.5 cps
1	$\frac{1}{1}$	G ₃	196.0 cps
82 (81, 80) 79	$\frac{5}{4}$	B ₃	245.0 cps
78 (77, 76) 75	$\frac{4}{3}$	C ₄	261.3 cps
74 (73, 72) 71	$\frac{3}{2}$	D ₄	294.0 cps
70 (69, 68) 67	$\frac{5}{3}$	E ₄	326.7 cps
66 (65, 64) 63	$\frac{15}{8}$	F ₄ [#]	367.5 cps
62 (61, 60) 59	$\frac{2}{1}$	G ₄	392.0 cps
58 (57, 56) 55	$\frac{9}{8}$	A ₄	441.0 cps
54 (53, 52) 51	$\frac{5}{4}$	B ₄	490.0 cps
50 (49) 48	$\frac{4}{3}$	C ₅	522.7 cps
47 (46) 45	$\frac{3}{2}$	D ₅	588.0 cps
44 (43, 42) 41	$\frac{5}{3}$	E ₅	653.3 cps