

# Organum on St. Denio

Octophonic Microtonal Computer Music for Fixed Media  
Score for Analysis

Numeric values represent detuning in cents from 12-tone equal temperament, and carry through the measure as accidentals.

**System 1:**  
Tempo:  $\text{♩} = 100$   
Lead Patch 01:  $+16$ ,  $n$ ,  $+45$ ,  $-27$ ,  $\pm 0$ ,  $-35$ ,  $\sharp$ ,  $-27$ ,  $\flat$ ,  $-45$ ,  $-27$ ,  $\flat$ ,  $-14$ ,  $\sharp$ ,  $-41$ ,  $\sharp$ ,  $-47$ ,  $-29$ ,  $+5$ ,  $\sharp$ ,  $-31$ ,  $\flat$ ,  $-49$ ,  $\sharp$ ,  $+4$ ,  $+29$ ,  $+11$ ,  $-3$   
Drone Patch 01:  $\pm 0$

**System 2:**  
Lead Patch 01 (continued):  $-49$ ,  $+2$ ,  $+38$ ,  $+7$ ,  $+42$ ,  $-10$ ,  $-12$ ,  $+17$ ,  $+28$ ,  $+6$ ,  $-27$ ,  $-1$ ,  $+45$ ,  $+29$ ,  $+38$ ,  $+40$ ,  $+40$ ,  $+42$   
Drone Patch 01 (continued):  $+42$

**System 3:**  
Lead Patch 02:  $-7$ ,  $n$ ,  $+45$ ,  $-5$ ,  $+44$   
Drone Patch 02:  $+40$

**System 4:**  
Lead Patch 02 (continued):  $-9$ ,  $+37$ ,  $-9$ ,  $-7$ ,  $-9$ ,  $-9$ ,  $-7$ ,  $-9$ ,  $-9$ ,  $-7$   
Drone Patch 02 (continued):  $+40$

**System 5:**  
Lead Patch 03:  $+37$ ,  $+2$ ,  $+48$ ,  $-7$ ,  $+37$ ,  $-20$ ,  $+22$ ,  $-38$   
Drone Patch 03:  $-49$

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Lead Patch 04

+37  
-43  
-45  
-43  
-45 -43  
+6  
Drone Patch 04  
+4

5

+42 +10 -23 +44 +11 -23 +42 +6 -27 +3 +33 -37 -8 +21 +49 -23 +4 -43 +9 -41 +8 -45 +1 +46

-10 +33 -25 +15 -45 +6 +32 -31 +6 +42 -23 +11 +44 -23 +10 +42 -27 -41 -25 -27 +42 -27 -41 -25 -41 -27

6

Lead Patch 05

-41 -25 +42 -27 -41 -27 +38 -32 -2 -32 -2 +28 -43 -14 +14 +42  
Drone Patch 05

7

-31 -27 -43 -29 +40 -27 -29 -29 +40 -25 +40 -25 -25 -43 -27 -27 +2  
Drone Patch 06



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Lead Patch 04 +42 +10 -23 +44 13

Lead Patch 01 14

+6

+11 -23 +42 +6

Lead Patch 04

+16 *n*

+45 -27 ±0

*p* -27 +6

-10 ±0

+4 Drone Patch 09

-35 ±0 -27 -45 -27 -14 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40

-35 ±0 -27 -45 -27 -14 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40

-27 +6

-10 +4

Lead Patch 09

15

+5 -47 ±0 -27 +45 +17 -12 -41 +29 -1 -31 +38 +6 -27 +40 +7 -27 +38 +2 -35 +28 -10 -49 +11 -29 +29 -14 +42 -3 -49 +4 -45

16

-35 ±0 -27 -45 -27 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40

Drone Patch 10

±0

Lead Patch 10

-45 +4 -45 +5 -45 +4 -3 +42 -14

-35 ±0 -27 -45 -27 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3

17

-49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40 -12 -45 -14 -10

Drone Patch 07  
-14

18

+37 -24 +14 -49 -12

-49 -17 -41 -12 -41 -45 +39 -10 -41 +28 +41 +37 -28 -43

Drone Patch 07  
-14

Drone Patch 08  
-14

-24 +24 +14 -7 -3 +15 -15 -26 +37 +15 +3 -8 +31 +24 +45 +26

-9 +39 -14

Lead Patch 08 19

-8 -43 -12

Drone Patch 11  
+2

20 **Lead Patch 11**

15<sup>ma</sup> -33 -47 -25 -43 +9 -12 # -39 -45 +2 +7 -29 +4 +6 +31 -27 -47

8<sup>va</sup>

*loco*

-8 +44 +40 -25 -1 +13 +8 -10 +30 +19 -25 +1 +47 +31 +40 +24 -8 -43 -12

21 **Drone Patch 12**

-43 -12 -8

**Lead Patch 12**

-45 -8 +24 -41 +26 -7 -41 +24 -41 +24 -12 -49 +14 -24

22

-43 -3 -43 +15 -43 -3 -43 +15 -28

-12 -45 -14 -10

**Drone Patch 01**

±0

**Lead Patch 01**

23

+16 n < +45 -27 ±0 -35 -27 -45 -21 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 -38 +7,42 -10 -12 17 +28 +6 -27 -1 +45 +29 +38 +40

**Lead Patch 04**

-27 +6

Lead Patch 09

Musical notation for Lead Patch 09. The treble clef staff contains a sequence of notes with the following fret numbers: +5, -47, ±0, -27, +45, +17, -12, -41, +29, -1, -31, +38, +6, -27, +40, +7, -27, +38, +2, -35, +28, -10, -49, +11, -29, +29, -14, +42, -3, -49, +4, -45. The bass clef staff contains a drone patch labeled ±0 Drone Patch 09.

±0 Drone Patch 09

24

Musical notation for measure 24. The treble clef staff contains notes with fret numbers: +5, -47, ±0, -12, -45, -14, -10. The bass clef staff contains a drone patch labeled Drone Patch 07 -14.

Drone Patch 07  
-14

25

Musical notation for measure 25. The treble clef staff contains notes with fret numbers: -12, -45, -14, -10, -49, -17, -41, -9, -12, -41, -45, +39, -10, -41, +28, +41, +37, -28, -43. The bass clef staff contains a drone patch labeled Drone Patch 07 -14.

Lead Patch 07

Lead Patch 08

26

Musical notation for measure 26. The treble clef staff contains notes with fret numbers: -24, +24, +14, -7, -3, +15, -15, -26, +37, +15, +3, -8, +31, +24, +45, +26. The bass clef staff contains a drone patch labeled Drone Patch 08 -14.

Drone Patch 08  
-14

27

Musical notation for measure 27. The treble clef staff contains notes with fret numbers: -8, -43, -12. The bass clef staff contains a drone patch labeled Drone Patch 11 +2.

Drone Patch 11  
+2

Lead Patch 11

28

15<sup>ma</sup> -33 -47 -25 -43 +9 -12 #39 -45 +2 +7 +4 +6 +31 -27 -47

8<sup>va</sup> -29

loco

-8 +44 +40 -25 (b) -1 +13 +8 -10 +30 +19 -25 +1 +47 +31 +40 +24 +6 -25 +4 -45 +8 -27 -10 (b) +44 -25 +9 +8

Lead Patch 13

29

-27 +10 +42 +10 -23

Drone Patch 13

+4

+44 +11 -23 +42 +6 -31 +32 -6 -31 +32 -45 +15 -25 +33 -10 +42 +10 -23 +44 +11 +15 -25 +33 -10 -45 +15 -25 +33

30

-23 +42 +6 -27 +3 +33 +3 +33 -37 -8 +21 +49 -23 +4 -10 +11 -23 +42 +6 -8 -41 -10 -8

3



31

3

Lead Patch 12  
-45 -8 +24 -41 +26 -7 -41 +24 -41 +24 -12 -49 +14 -24

Drone Patch 12  
-14

32

-12 -45 -14 -10

Drone Patch 14  
±0

Lead Patch 14  
-3 +42 -3 -49 +4 -45 +5 -47 ±0 -27 +45 +17 -12 -41 +29 -1 -31

33

-29 +11 -49 -10 +28 -35 -10

-49 +11 -29 +29 -14

+40 +40 +42 +40 +42

Drone Patch 02  
+40

Lead Patch 02

34

3 3

-7 n

+45 -5 +45 -7 -5 +44

-9 +37

+44 +46

Lead +6 Patch 04

Drone Patch 04  
+4

35

+42 +10 -23 +44 +11 -23 +42 +6 -27 +3 +33 -37 -8 +21 +49 -23 +4 -43 +9 -41 +8 -45 +1 +46

-10 +33 -25 +15 -45 +6 +32 -31 +6 +42 -23 +11 +44 -23 +10 +42 -27 -41 -25 -27 +42 -27 -41 -25 -41 -27

36

Lead Patch 05

-41 -25 +42 -27 -41 -27 +38 -32 -2 -32 -2 +28 -43 -14 +14 +42

Drone Patch 05

37

-31 -27 -43 -29 +40 -27 -29 -29 +40 -25 +40 -25 -25 -43 -27

Drone Patch 06

+2

38

Lead Patch 06

-29 +40 +8 +40 +8 -25 +8 +40 +8 -25 +42 +9 -25 +40 +4 -1 +4 -10 -47 +42 -27 +2 +6

39

Lead Patch 01

Drone Patch 01

-12 -29 +7 +16 +45 -27 ±0 -35 ±0 -27 -45 -14 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3

±0

40

Lead Patch 07

Drone Patch 07

-49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40 -12 -45 -14 -10

-12 -45 -14 -10 +37 -24 +14 -49 -12 -49 -17 -41 -9 -12 -41 -45 +39 -10 -41 +28 +41 +37 -28 -43

-14

41

Drone Patch 08

Lead Patch 08

Drone Patch 04

-24 +24 +14 -7 -3 +15 -15 -26 +37 +15 +3 -8 +31 +24 +45 +26

-9 +39 -14 -8 -41 -10 -8 -41

-14 +4

42

Lead Patch 04

Lead Patch 01

Lead Patch 04

Drone Patch 09

+42 +10 -23 +44 +11 -23 +42 +6 +16 +45 -27 ±0

-10 +4

-35 ±0 -27 -45 -27 -14 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40

-35 ±0 -27 -45 -27 -14 -41 -47 -29 +5 -31 -49 +4 +29 +11 -3 -49 +2 +38 +7 +42 -10 -12 +17 +28 +6 -27 -1 +45 +29 +38 +40

-27 +6

-10 +4

Lead Patch 09

45

+5 -47 ±0 -27 +45 +17 -12 -41 +29 -1 -31 +38 +6 -27 +40 +7 -27 +38 +2 -35 +28 -10 -49 +11 -29 +29 -14 +42 -3 -49 +4 -45

46

+5 -47 ±0

*n*