

*Keyboard Mapping  
for 43Et*

*Juhan Puhm*

# Keyboard Mapping for 43Et

## Polychromatic Notation

Selected Ratios:  $1/1$   $64/63$   $28/27$   $36/35$   $21/20$   $22/21$

Midi Mapping Notes: 17 60 103 18 61 104 19 62 105 20 63 106

Labels:  $15^{mb}$ ,  $8^{va-7}$ ,  $8^{vb}$ ,  $8^{va-7}$ ,  $8^{vb}$ ,  $8^{va-7}$ ,  $8^{va-7}$

Staff numbers: 4, 3, 2, 1, 0, ↓, 2, 3, 4

*Incomplete Notation by Microtonal Inflection*

5 **4**  $8^{va-7}$  **5**  $15^{ma-7}$  **6**  $15^{ma-7}$  **7**  $15^{ma-7}$

$8^{vb}$   $16/15$   $8^{vb}$   $13/12$   $8^{vb}$   $11/10$   $54/49$   $8^{vb}$   $28/25$   $9/8$   $10/9$

21 64 107 22 65 108 23 66 109 24 67 110

4  
3  
2  
1  
0  
↓  
2  
3  
4

9 8 9 10 11 12

*15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7*

8<sup>vb</sup> 8/7 8<sup>vb</sup> 15/13 8<sup>vb</sup> 7/6 13/11 8<sup>vb</sup> 6/5 8<sup>vb</sup> 98/81 11/9

25 68 111 26 69 112 27 70 113 28 71 114 29 72 115

The image displays a musical score for the instrument 43Et, consisting of ten staves. The top staff is a bass line with notes in both bass and treble clefs. Above it are four chord diagrams labeled 13, 14, 15, and 16, each with a  $15^{ma-7}$  label. Below the bass line are two rows of numbers: the first row contains 30, 73, 116, 31, 74, 117, 32, 75, 118, 33, 76, 119; the second row contains 16/13, 26/21, 5/4, 14/11, 35/27, 13/10, 9/7. The remaining nine staves are numbered 4 through 0 from top to bottom. Each staff contains musical notation with notes and accidentals, and some notes are color-coded: pink (4), purple (3), blue (2), green (1), black (0), yellow (downward), orange (upward), and red (3). The notes are often accompanied by small arrows indicating fingerings or directions.



22 21 22 23 24 25

*15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7* *15<sup>ma</sup>-7*

$\frac{45}{32} \frac{7}{5}$   $\frac{64}{45} \frac{10}{7}$   $\frac{16}{11} \frac{13}{9}$   $\frac{72}{49} \frac{22}{15}$   $\frac{3}{2}$

38 81 124 39 82 125 40 83 126 41 84 127 42 85

27 26 27 28 29

15<sup>mb</sup> 32/21 15<sup>mb</sup> 54/35 20/13 14/9 15<sup>mb</sup> 11/7 15<sup>mb</sup> 8/5

0 43 86 1 44 87 2 45 88 3 46 89

4 3 2 1 0 ↓ 2 3 4



31 30 31 32 33

The image displays a musical score for the instrument 43Et, consisting of ten staves. The top staff is a grand staff with a bass clef on the left and a treble clef on the right, containing a sequence of notes. Below this staff are four measures of chord diagrams, each with a 15<sup>mb</sup> label and a slash-separated list of numbers: 4 47 90, 5 48 91, 6 49 92, and 7 50 93. The remaining nine staves are arranged in pairs (2, 3, 4, 5, 6, 7, 8, 9, 10) and each contains musical notation with colored notes (purple, blue, green, yellow, orange, red) corresponding to the chord diagrams. The notes are placed on the staves to show their positions relative to the instrument's layout.

The image displays a musical score for the instrument 43Et, consisting of ten staves. The top staff is a bass clef line with measure numbers 34 through 38. Below it is a tablature line with fret numbers (8, 51, 94, 9, 52, 95, 10, 53, 96, 11, 54, 97, 12, 55, 98) and chord diagrams for measures 34, 35, 36, 37, and 38. The remaining nine staves are bass clef lines with notes in various colors (pink, blue, green, yellow, orange, red) corresponding to the fret numbers in the tablature. The notes are organized into groups of 4, 3, 2, 1, 0, 1, 2, 3, and 4 across the staves. Some notes have accidentals (sharps and flats). The score is divided into measures 34, 35, 36, 37, and 38.

The image displays a musical score for the instrument 43Et, consisting of ten staves. The top staff is a bass clef line with treble clef segments, containing measures 39, 40, 41, and 42. Above these measures are markings for octaves (8va-7) and a 15th fret (15mb). Below the staff is a tablature line with numbers 13, 56, 99, 14, 57, 100, 15, 58, 101, 16, 59, 102. The remaining nine staves are bass clef lines with various colored notes (pink, purple, blue, green, black, yellow, orange, red) and some treble clef segments. The notes are organized into groups corresponding to the fret numbers in the tablature. The score concludes with a double bar line.