Theme 1a Motives
Unary Voice-Leading Transformations

m1a1: 3-2: {1,2,4} **111000**
Y = 1
3-6: {0,2,4} RP 020100 1 becomes 0 m.33 bass

Y = 2
3-7: {11,2,4} R1 011010 1 becomes 11 < M_7(m1b2)

Y = 3
3-7: {11,1,4} R1 011010 2 becomes 11 m1a4

Y = 4
3-2: {2,4,5} 111000 1 becomes 5 m1b2
3-7: {1,4,6} R1 011010 2 becomes 6 m1a5

Y = 5
3-2: {11,1,2} 111000 4 becomes 11 m1a4 = T_3I
3-6: {2,4,6} RP 020100 1 becomes 6 bs 35-36 bass

m1a2: 3-7: {1,4,6} **011010**
Y = 1
3-6: {2,4,6} RP 020100 1 becomes 2 bs 35-36 bass
3-7: {1,3,6} 011010 4 becomes 3 bs 65-66

Y = 4
3-9: {6,8,1} R2 010020 4 becomes 8 b. 64

Y = 5
3-9: {11,1,6} R2 010020 4 becomes 11 b. 71

Y = 6
3-11: {6,10,1} R1 001110 4 becomes 10 F# maj. triad, b. 65

m1a3: 3-6: {2,4,6} **020100**
Y = 1
3-2: {2,4,5} RP 111000 6 becomes 5 m1b2
3-7: {1,4,6} RP 011010 2 becomes 1 M_5(m1b2)

Y = 6
3-6: {0,2,4} 020100 6 becomes 0 b. 33 bass

m1a4: 3-2: {11,1,2} **111000**
Y = 3
3-7: {11,2,4} R1 011010 1 becomes 4 subset of m1b3

Y = 4
3-9: {11,1,6} RP 010020 2 becomes 6 b. 71

Y = 5
3-2: {1,2,4} 111000 11 becomes 4 subset of m1b1

Y = 6
3-11: {7,11,2} RP 001110 1 becomes 7 G major triad at end

m1a5: 3-7: {8,10,1} **011010**

Y = 2

3-11: {6,10,1}	R1	001110	8 becomes 6 F# maj. triad, b. 62

Y = 3

3-2: {10,11,1}	R1	111000	8 becomes 11 m1a7

Y = 4

3-2: {10,0,1}	R1	111000	8 becomes 0 m1a1, π_2,b
3-7: {5,8,10}		011010	1 becomes 5 b. 14
3-9: {6,8,1}	R2	010020	10 becomes 6 bs. 64-65

Y = 5

3-6: {6,8,10}	RP	020100	1 becomes 6 bs 33-36
3-7: {10,1,3}		011010	8 becomes 3 b. 77

m1a7: 3-2: {10,11,1} **111000**

Y = 2

3-7: {8,11,1}	R1	011010	10 becomes 8

Y = 3

3-7: {8,10,1}	R1	011010	11 becomes 8 m1a5

Y = 4

3-2: {11,1,2}		111000	10 becomes 2 m1a4
3-7: {10,1,3}	R1	011010	11 becomes 3 b. 77
3-9: {11,1,6}	RP	010020	10 becomes 6 b. 71

Y = 5

3-11: {6,10,1}	RP	001110	11 becomes 6 F# maj. triad, b. 65

m1a8: 4-10: {8,10,11,1} **122010**

Y = 4

4-23: {8,10,1,3}	RP	021030	11 becomes 3 b. 77

Y = 5

4-22: {6,8,10,1}	RP	021120	11 becomes 6 bs 64-65

Y = 6

4-3: {7,8,10,11}	RP	212100	1 becomes 7 T_6(m1b1)
4-3: {10,11,1,2}	RP	212100	8 becomes 2 T_9(m1b1)

m1a9: 3-2: {4,5,7} **111000**

Y = 5

3-2: {2,4,5}		111000	7 becomes 2 m1b2
3-11: {0,4,7}	RP	001110	5 becomes 0 C maj. triad, b. 31

Y = 6

3-7: {5,7,10}	R1	011010	4 becomes 10 < M_7(m1a4)
3-11: {4,7,11}	RP	001110	5 becomes 11 E minor triad b. 31

Unary Relations for Contiguous Sets in Theme 1a

GENERATOR SET: 4-11: {1,2,4,6} 121110

y = 1
4-3: {1,2,4,5} RP 212100 6 becomes 5 T_0(m1b1)
4-10: {1,3,4,6} R2 122010 2 becomes 3 T_5(m1a8)
4-21: {0,2,4,6} R0 030201 1 becomes 0 b. 33 ff.

y = 5
4-10: {11,1,2,4} R2 122010 6 becomes 11 T_3(m1a8)
4-21: {2,4,6,8} R0 030201 1 becomes 8 b. 33 ff.

GENERATOR SET: 5-10: {8,10,11,1,2} 223111

Does not generate significant sets
Contiguous sets for lower voice of Theme 1a

GENERATOR SET: 4-2: {9,10,11,1} 221100

y = 1
4-3: {9,10,0,1} R1 212100 11 becomes 0 T_8(m1b1)
4-10: {8,10,11,1} RP 122010 9 becomes 8 m1a8

GENERATOR SET: 5-2: {8,9,10,11,1} 332110

y = 2
5-10: {7,8,10,11,1} RP 223111 9 becomes 7 T_{11}(b. 3, descant)

y = 3
5-23: {6,8,10,11,1} R1 132130 9 becomes 6 B major scale segment

y = 5
5-10: {8,10,11,1,2} RP 223111 9 becomes 2 T_0(b.3 descant) see above

y = 6
5-23: {8,10,11,1,3} R1 132130 9 becomes 3 B major scale segment

GENERATOR SET: 4-1: {4,5,6,7} 321000

y = 2
4-3: {3,4,6,7} RP 212100 5 becomes 3 T_2(m1b1)
4-3: {4,5,7,8} RP 212100 6 becomes 8 T_3(m1b1)

y = 4
4-10: {4,6,7,9} RP 122010 5 becomes 9 T_8(m1a8)
4-10: {2,4,5,7} RP 122010 6 becomes 2 T_3(m1a8)

Unary transforms of boundary pcs of Theme 1a with its inversion

GENERATOR SET: 3-9: {11,1,6} 010020

y = 1
3-11: {6,10,1} RP 001110 11 becomes 10 F# major triad

y = 3
3-9: {4,6,11} 010020 1 becomes 4 T_5 (form below)
3-9: {6,8,1} 010020 11 becomes 8 (T_5) bs 64-65

y = 4
3-2: {10,11,1} RP 111000 6 becomes 10 m1a7
3-2: {11,1,2} RP 111000 6 becomes 2 m1a4
3-7: {1,3,6} R2 011010 11 becomes 3 b. 14

y = 5
3-7: {6,8,11} R2 011010 1 becomes 8 m. 61
3-7: {1,4,6} R2 011010 11 becomes 4 m1a1

Unary transforms of boundary pcs F#-B permuted, with inversion

GENERATOR SET: 3-9: {4,6,11} 010020

y = 2
3-7: {1,4,6} R2 011010 11 becomes 1 m1a2

y = 3
3-6: {2,4,6} RP 020100 11 becomes 2 b. 34-35
3-9: {11,1,6} 010020 4 becomes 1 m1c1 and I(m1c1) as above

Theme 1b motives
Unary Transformations

m1b1: 4-3: {1,2,4,5} **212100**

y = 6
4-10: {2,4,5,7} RP 122010 1 becomes 7 T_6(m1a8)
4-10: {11,1,2,4} RP 122010 5 becomes 11 m1b3

m1b2: 3-2: {2,4,5} **111000**

y = 1
3-6: {2,4,6} RP 020100 5 becomes 6 bs 35-36

y = 5
3-6: {0,2,4} RP 020100 5 becomes 0 m. 33 bass

m1b3: 4-10: {11,1,2,4} **122010**

y = 6
4-3: {1,2,4,5} RP 212100 11 becomes 5 m1b1
4-26: {11,2,4,7} RP 012120 1 becomes 7 = M_7(m1b1)

m1b4: 3-2: {11,1,2} **111000**

y = 4
3-9: {11,1,6} RP 010020 2 becomes 6 b. 71

y = 6
3-11: {7,11,2} RP 001110 1 becomes 7 G major triad (end)

Theme 1b motives
Unary Transformations

m1b1: 4-3: {1,2,4,5} **212100**

y = 6
4-10: {2,4,5,7} RP 122010 1 becomes 7
4-10: {11,1,2,4} RP 122010 5 becomes 11 m1b 3

m1b2: 3-2: {2,4,5} **111000**

y = 1
3-2: {2,3,5} 111000 4 becomes 3
3-6: {2,4,6} RP 020100 5 becomes 6

y = 2
3-7: {2,4,7} R1 011010 5 becomes 7

y = 3
3-7: {2,5,7} R1 011010 4 becomes 7

y = 4
3-2: {1,2,4} 111000 5 becomes 1
3-7: {0,2,5} R1 011010 4 becomes 0

y = 5
3-2: {4,5,7} 111000 2 becomes 7
3-6: {0,2,4} RP 020100 5 becomes 0

y = 6
3-7: {11,2,4} R1 011010 5 becomes 11

m1b3: 4-10: {11,1,2,4} **122010**

y = 2
4-23: {9,11,2,4} RP 021030 1 becomes 9
4-23: {11,1,4,6} RP 021030 2 becomes 6

y = 5
4-22: {11,2,4,6} RP 021120 1 becomes 6
4-22: {9,11,1,4} RP 021120 2 becomes 9

y = 6
4-3: {10,11,1,2} RP 212100 4 becomes 10
4-3: {1,2,4,5} RP 212100 11 becomes 5
4-26: {11,2,4,7} RP 012120 1 becomes 7
4-26: {8,11,1,4} RP 012120 2 becomes 8

m1b4: 3-2: {11,1,2} **111000**

y = 1
3-2: {11,0,2} 111000 1 becomes 0
3-6: {11,1,3} RP 020100 2 becomes 3

y = 2
3-7: {11,1,4} R1 011010 2 becomes 4

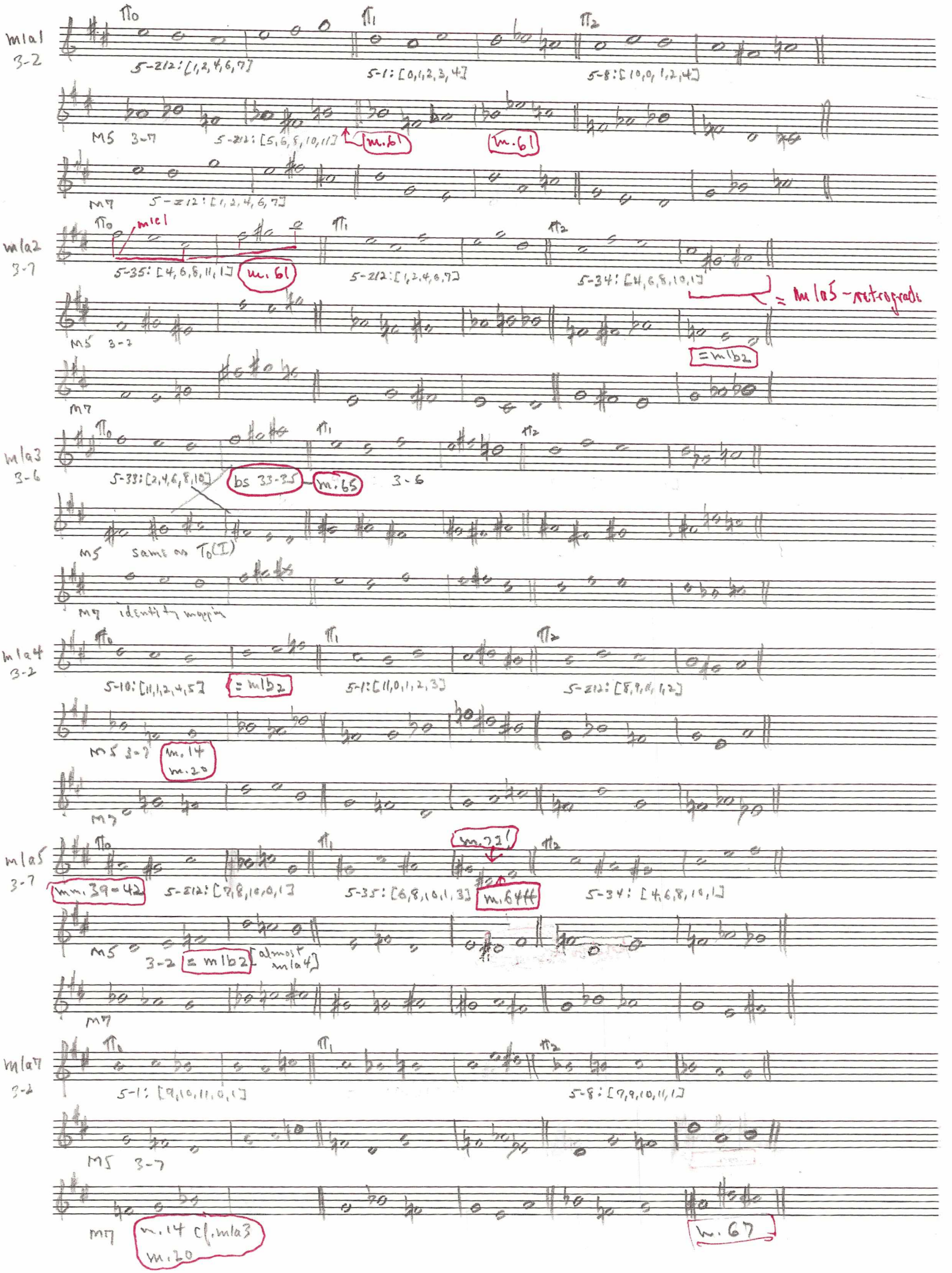
y = 3
3-7: {11,2,4} R1 011010 1 becomes 4

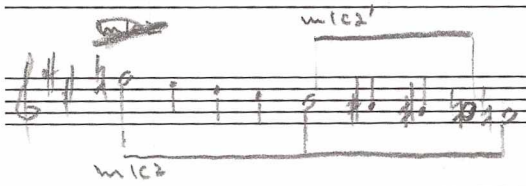
y = 4
3-2: {10,11,1} 111000 2 becomes 10
3-9: {11,1,6} RP 010020 2 becomes 6

y = 5
3-2: {1,2,4} 111000 11 becomes 4
3-6: {9,11,1} RP 020100 2 becomes 9

y = 6
3-7: {8,11,1} R1 011010 2 becomes 8
3-11: {7,11,2} RP 001110 1 becomes 7 G major triad (end)

PI mappings and products: Huang





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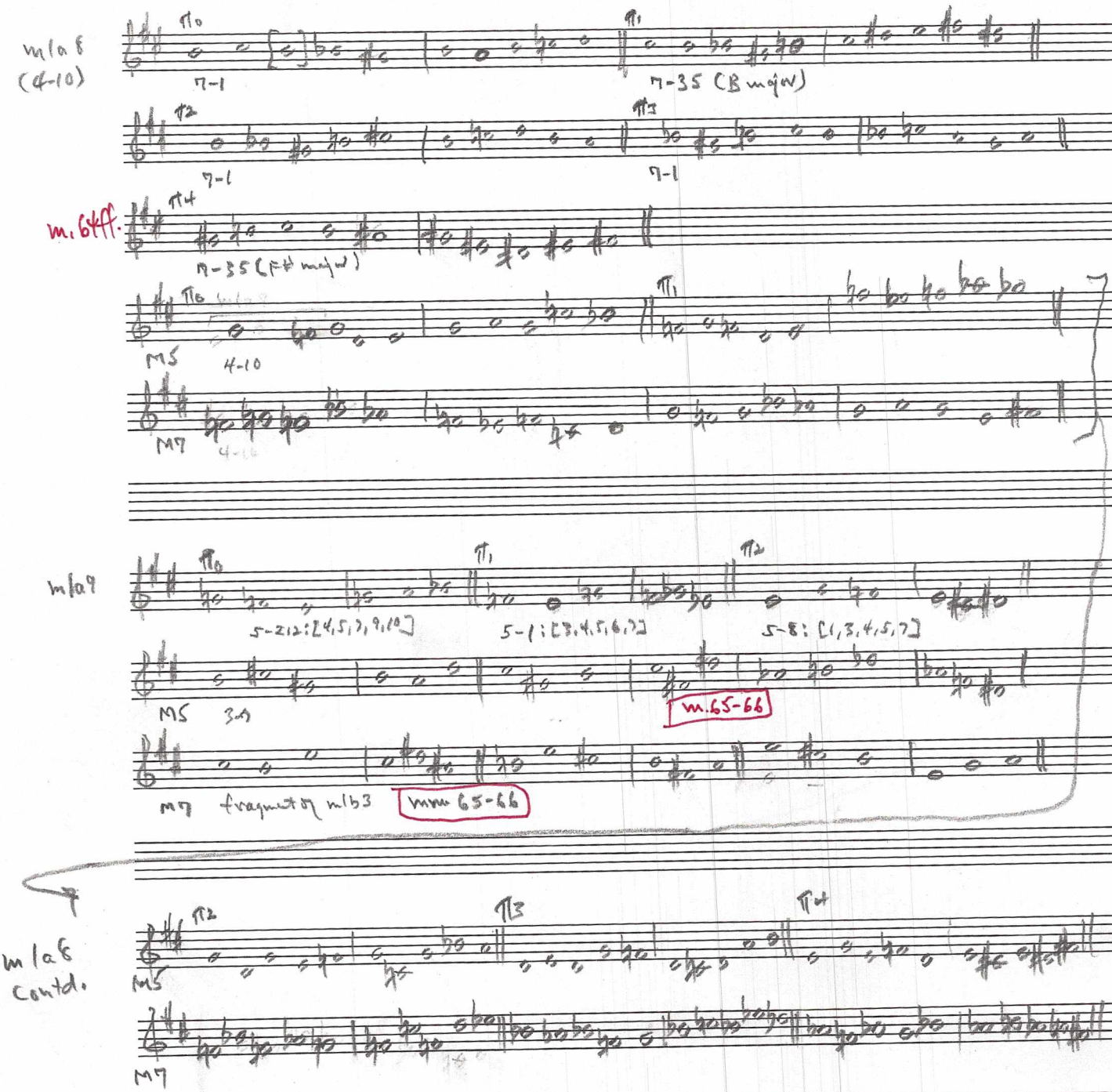

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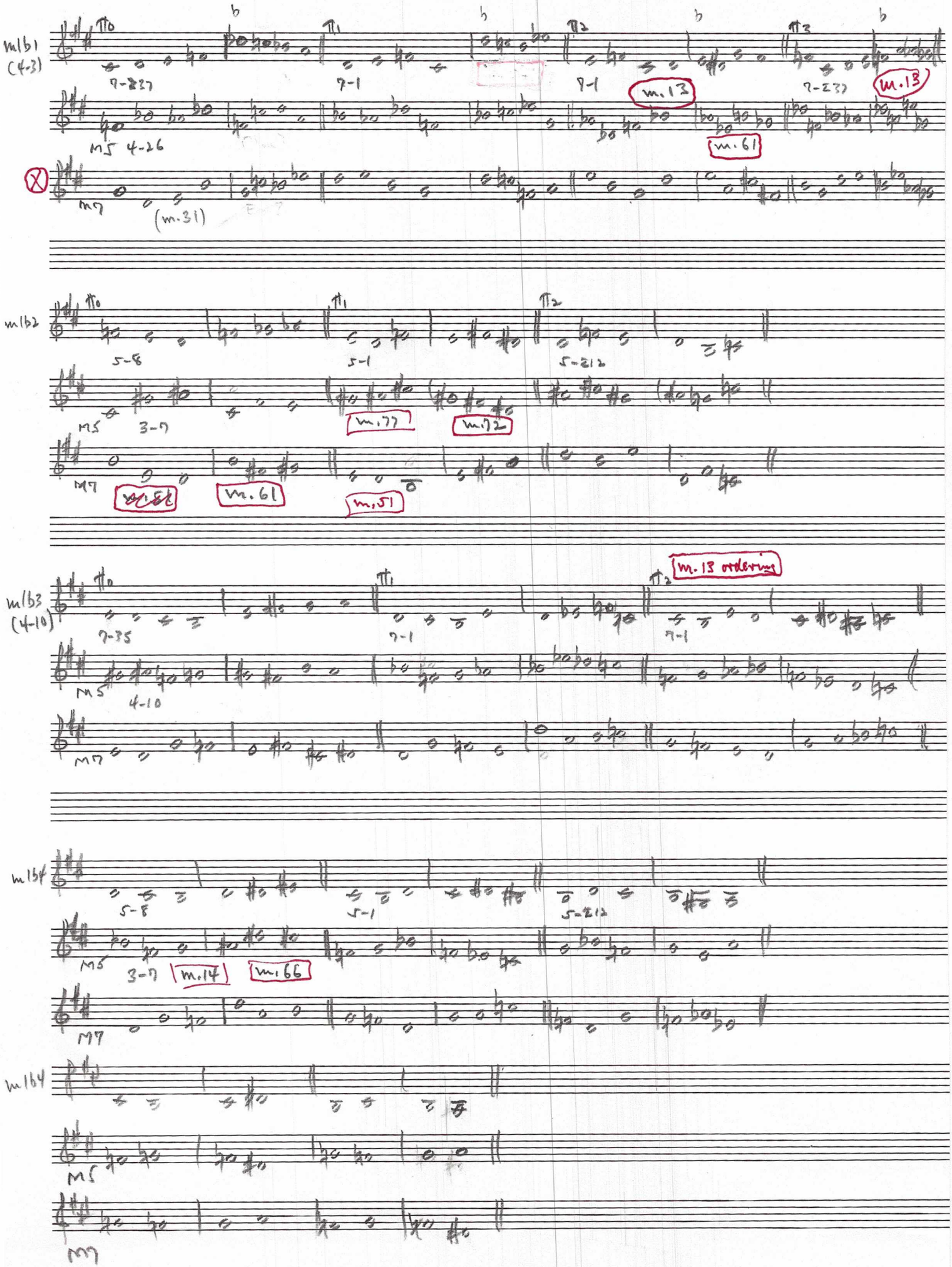
m1b1
(4-3)
7-Z37
7-1
7-1
m.13
7-Z37
m.13
m.61
m5 4-26
m7
(m.31)
m1b2
5-8
5-1
5-Z12
m5 3-7
m.77
m.72
m7
m.61
m.61
m.51
m1b3
(4-10)
7-35
7-1
m.13 ordering
7-1
m5 4-10
m7
m1b4
5-8
5-1
5-Z12
m5 3-7
m.14
m.66
m7
m1b4
m5
m7