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**PREMISE AND COMPOSITIONAL WORKING-OUT:  
AN EXAMINATION THROUGH ANALYSIS  
OF LIGETI'S CHANGING STYLE**

**A Thesis in Two Volumes**

**by**

**HELEN HAUGHEY**

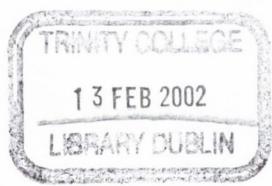
**A THESIS SUBMITTED IN CANDIDACY FOR THE DEGREE OF  
DOCTOR IN PHILOSOPHY**

**TRINITY COLLEGE DUBLIN**

**FACULTY OF ARTS (HUMANITIES)  
SCHOOL OF MUSIC**

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Introductory Area

The score consists of two staves of music. The top staff shows a sequence of notes with labels: "gradual expansion" (at bar 1), "Sudden (Blurred)" (at bar 22), "Struck" (at bar 25-32), "Blurred" (at bar 43), "Filled area" (at bar 52-3), and "Struck" (at bar 59-68). The bottom staff shows time markers: "Bar 1 Interval 3", "22 Octave + Interval 2", "25-32 Interval 6", "43 1", "52-3 1", "59-68 4", and "115 5".

Other prominent dyads + unisons

The score shows a sequence of notes at specific bars: Bar 74 (b), Bar 81 (b), Bar 82 (#), Bar 113 (c), Bar 128 (o), and Bar 143 ((b)).

ex.1.1 Important dyads and unisons

## Bar 5

<u>Inst</u>	<u>Pitch</u>	<u>Beat</u>	1	2	3	4
BFl	DF $\natural$		4	5	6	5
Cl1	DF		7	7	-	-
Cl2	DF		6	-	-	-
BC1	DF		-	-	-	-
Cfg1	DF		8	8	7	6
Cfg2	DF		5	6	6	7
Hrn1			-	-	-	-
Hrn2			-	-	-	-
VCl1			-	-	-	-

## Bar 6

<u>Inst</u>	<u>Pitch</u>	<u>Beat</u>	1	2	3	4
	DF			4	4	5
	DF $\#$		-	-	6	6
	DF $\#$		-	-	7	7
	DF $\#$		-	6	6	7
	DF		5	-	4	4
	DF		8	-	-	7
	DF		-	5	-	-
	DF		-	3	3	-
			-	-	-	F $\natural$ ----

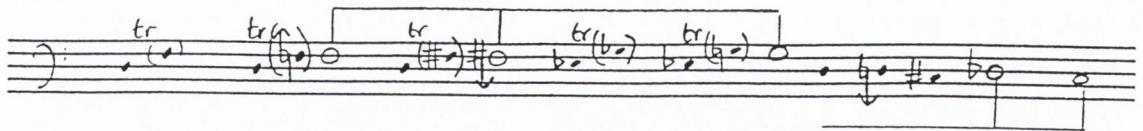
## Bar 7

<u>Inst</u>	<u>Pitch</u>	<u>Beat</u>	1	2	3	4
BFl	D $\sharp$ F $\natural$		-	-	4	4
Cl1	DF $\#$		-	7	-	DF 8
Cl2	DF $\#$		8	8	-	7
BC1	DF $\#$		7	7	-	8
Cfg1	DF		5	DF $\#$ /6	6	-
Cfg2	DF		6	DF $\#$ /6	5	-
Hrn1	DF		-	4	4	-
Hrn2	DF		-	4	4	-
VCl1	F $\natural$		-----	-----	-----	-----

## Bar 8

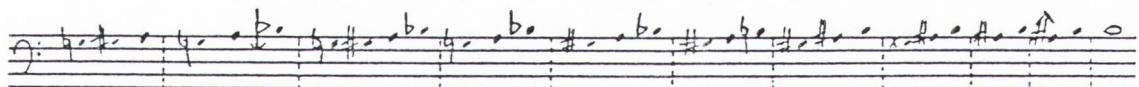
<u>Inst</u>	<u>Pitch</u>	<u>Beat</u>	1	2	3	4
BFl	D $\sharp$ F $\natural$		3	3	4	4
Cl1	DF		8E $b$ G $b$ 7E $b$ G $\natural$ 6		6	
Cl2	DF		6	6E $b$ G $b$ 5		5
BC1	DF $\#$		8	8E $b$ G $b$ 7		-
Cfg1	DF $\#$		7	-DF $\natural$	8	-
Trb	DF $\#$		-	3	3	F $\#$ ---
VCl1	F $\natural$		-----	-----	DF $\natural$	3

ex.1.2a Pitch introduction, bs.5-8



ex.1.2b Pitch expansion, bs.1-11

ex.1.3 Transfer of pitches, bs.15-16



ex.1.4 Pitch fixing, bs.17-22

ex.1.5 Viola 2 b.19, as expected and as is

ex.1.6 layers(ii) and (iii) bs.20-22

# F11  
 # obs

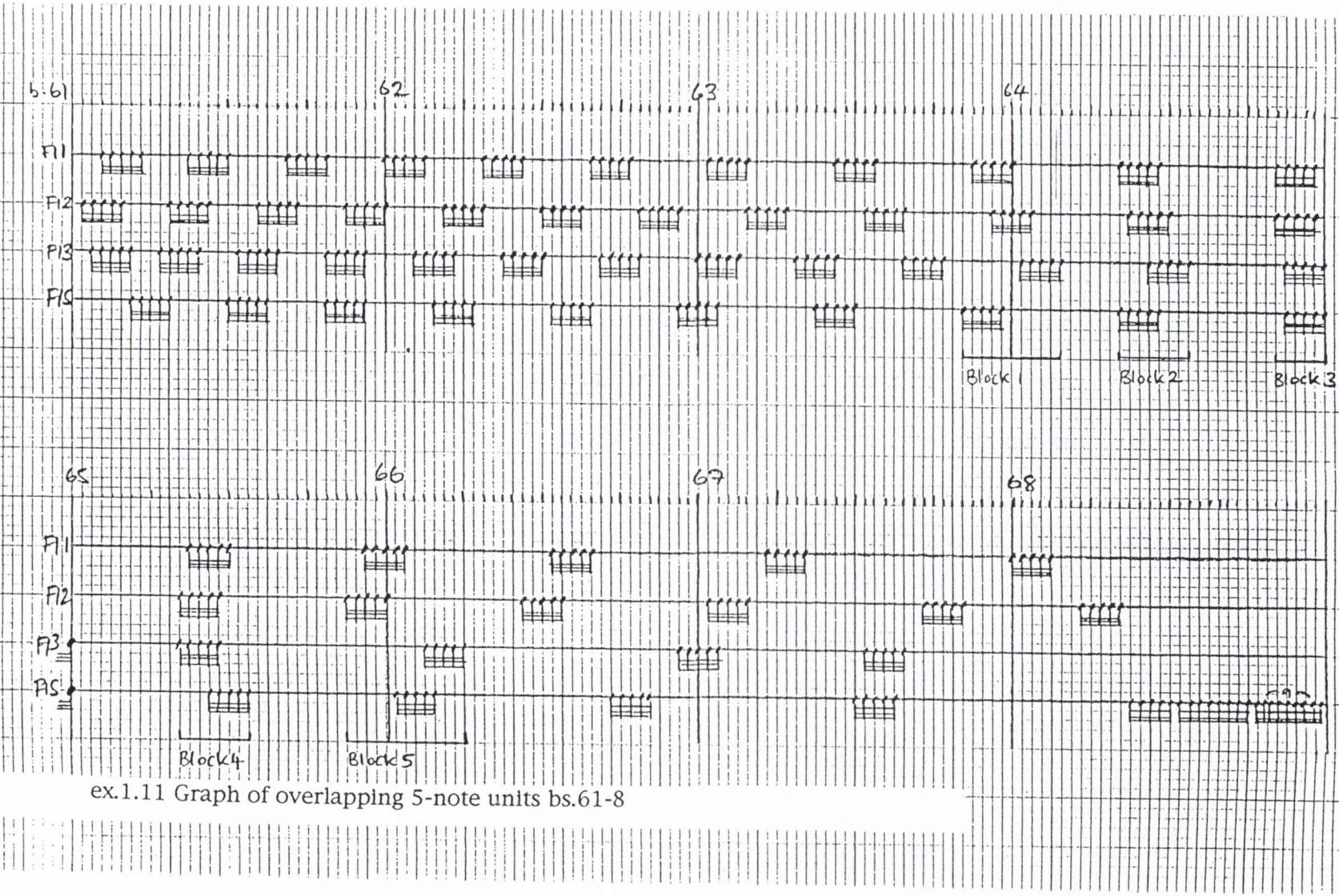
# F1S  
 # Cb1  
 # BCI

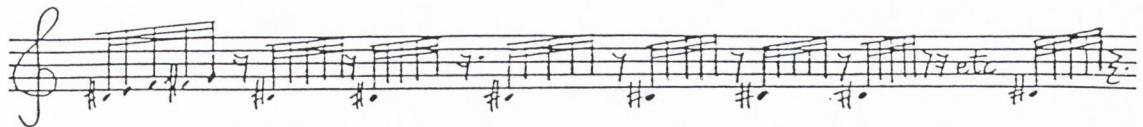
ex.1.7 Octave multiplication, b.22

ex.1.8 C#-D# groups, bs.23-4

ex.1.9 Clusters, b.48.

ex.1.10 New pitch orders, bs.48-59





ex.1.12 Increased spacing of 5-note units bs.59-64

Two staves of handwritten musical notation. The top staff shows a sequence of notes with sharp and double sharp symbols. The bottom staff shows a similar sequence with a mix of sharp and flat symbols. The notation is intended to represent 'ObD' and 'CA' lines.

ex.1.13 Expansion outwards in ObD and CA lines, b.71

A single staff of handwritten musical notation in G clef. Below the staff, a sequence of numbers is written under each note: 9, 6, 0, 5, 7, 11, 8, 2, 10, 4, (9), (6), 3, 1. The notation includes various note heads and stems.

ex.1.14 12-note complex, ObS line, bs.80-81

A single staff of handwritten musical notation in G clef. A bracket is placed over a section of the staff, indicating a specific segment of the 12-note complex.

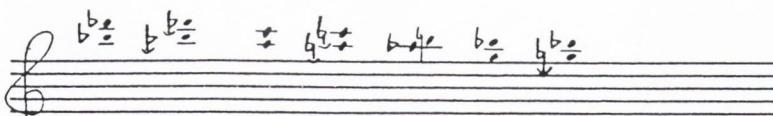
ex.1.15 Local divergence, b.83.

A single staff of handwritten musical notation in G clef. Below the staff, a sequence of numbers is written under each note: 7, 6, 9, 8, 2, 1, 3, 11, 10, 4, 5, (8), 10. The notation includes various note heads and stems.

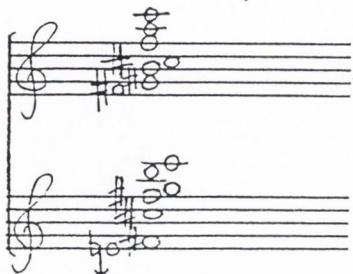
ex.1.16 12-note complex, Fl/Ob/Cl lines, bs.83-87

A handwritten musical score consisting of five systems of music for Oboe (Ob) and Horn (Hp). The score is written on five-line staves. The first system starts with a dynamic of  $f$  and includes measure numbers 7 and 8. The second system starts with a dynamic of  $p$  and includes measure number 6. The third system starts with a dynamic of  $p$  and includes measure number 5. The fourth system starts with a dynamic of  $p$  and includes measure number 9. The fifth system starts with a dynamic of  $p$  and includes measure numbers 5 and 10.

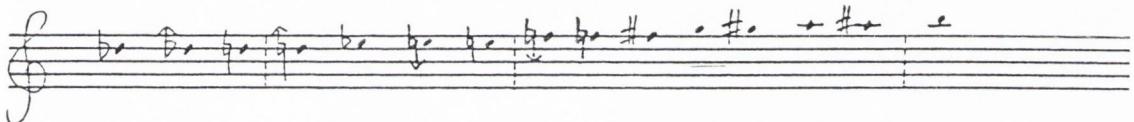
ex.1.17 ObS and Hp lines, b.88



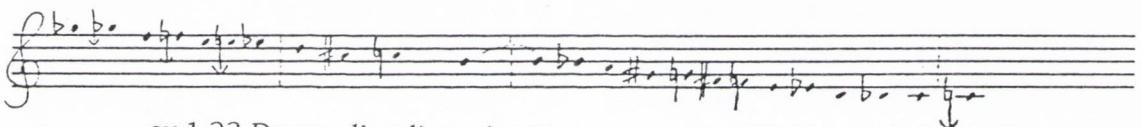
ex.1.18 F1S and C11 descent b.94  
gva-----



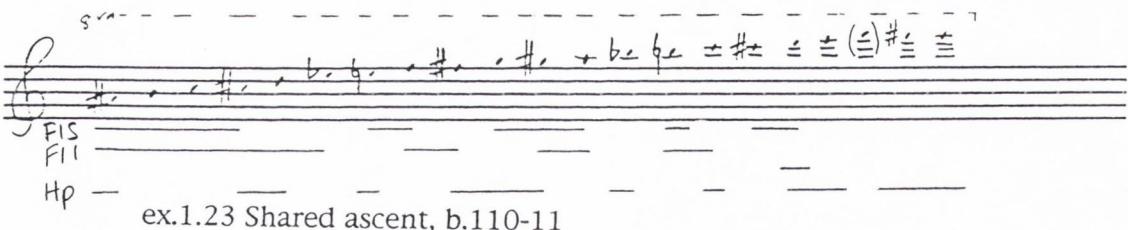
ex.1.19 Background texture, b.97  
(ex.1.20--see over)



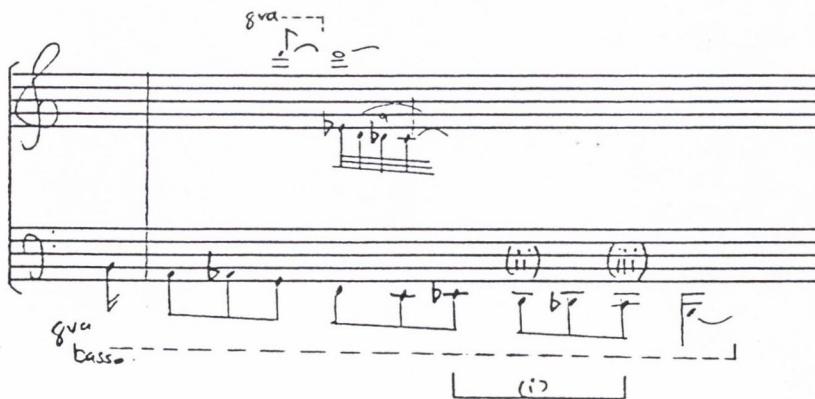
ex.1.21 Ascending lines, b.102



ex.1.22 Descending lines, b.102



ex.1.23 Shared ascent, b.110-11



ex.1.24 Pitch relationships, b.111

97

F G B D Bb

Obb G

Obb G

Tr G

B Bb Bb Bb

F# F# F# F#

C C Bb Bb A A

A A A A A A

A A A A A A

A A A A A A

A A A A A A

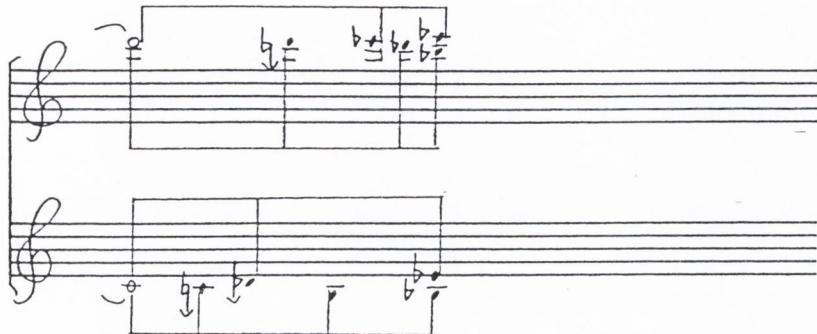
G G G G G G

98

99

100

ex.1.20 Graph of attacks,bs. 97-100

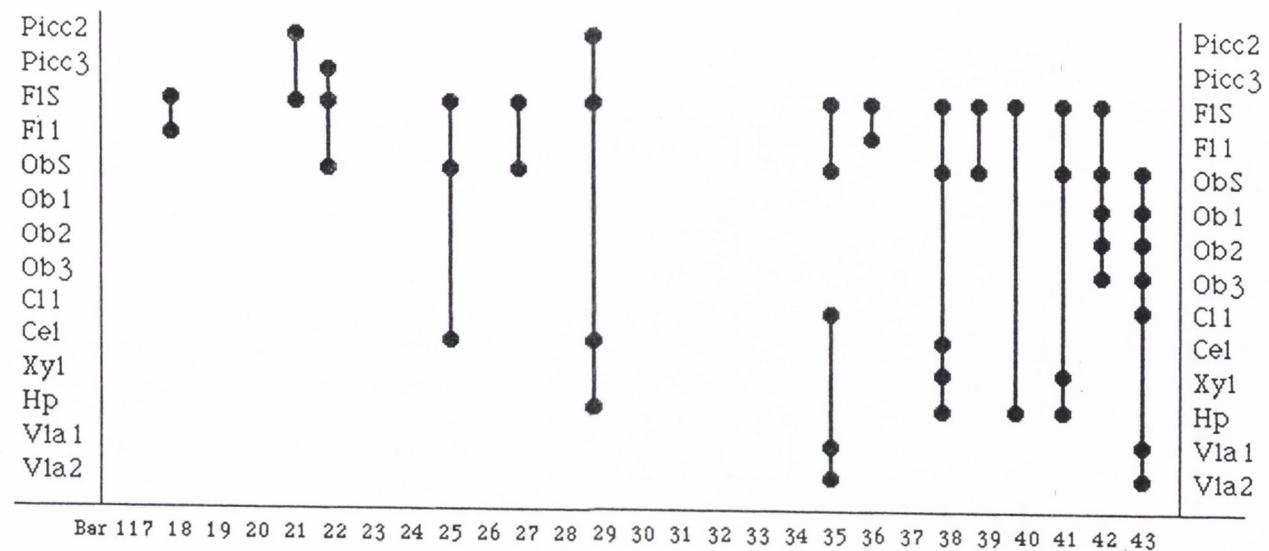


ex.1.25 Octave multiplication and simultaneous attack, bs.114-16

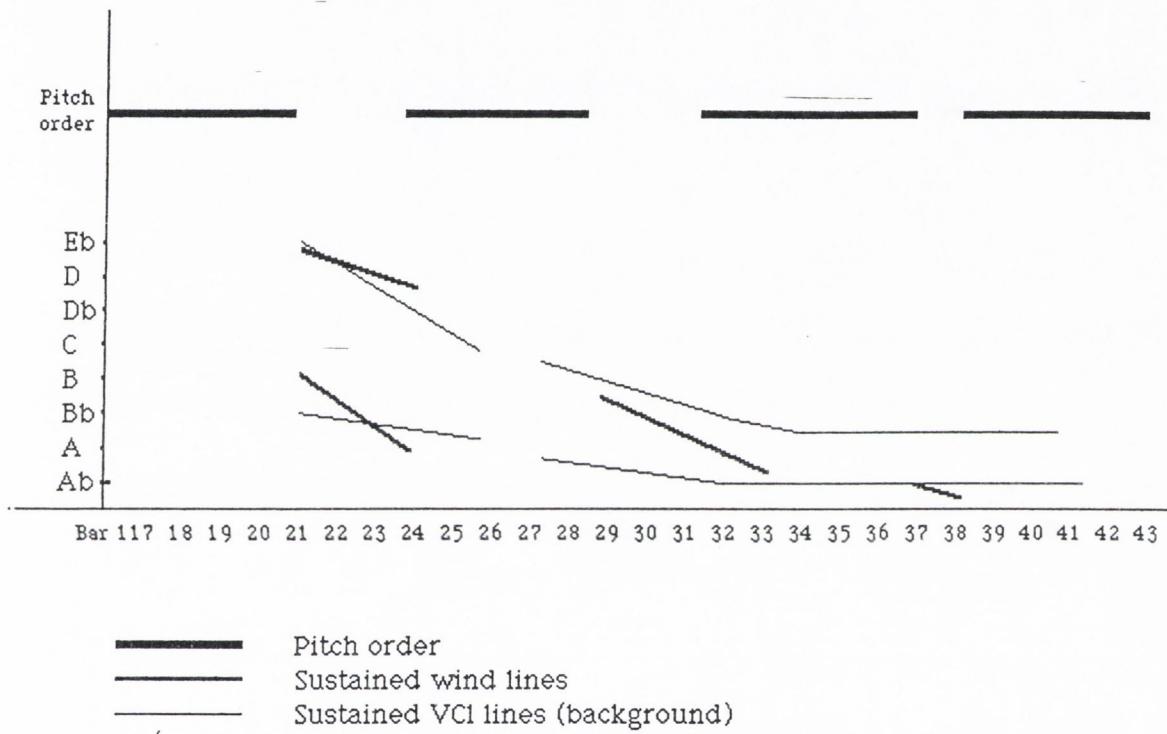
b.22 b.43 bs.68-9 bs.69-70 b.105 b.106 b.112 b.115

ex.1.26 Points of widest registral compass

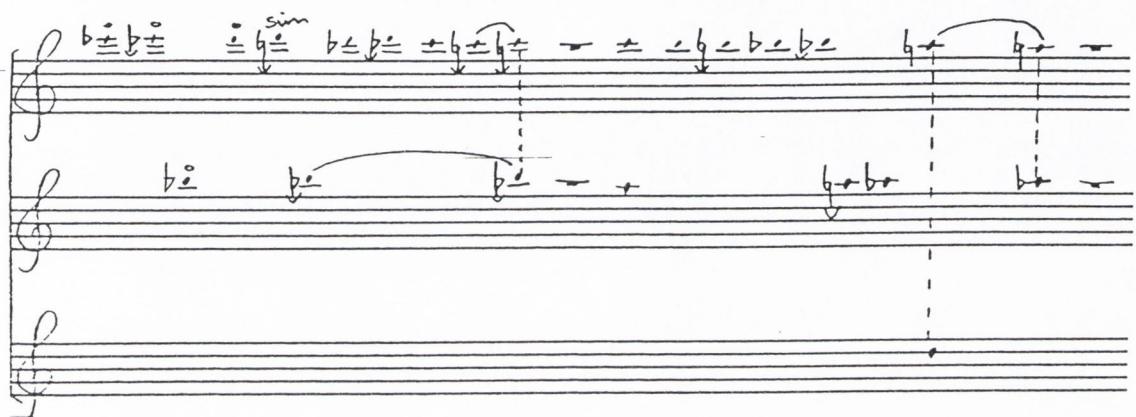
ex.1.27 Pitch order (not synchronised) Fl1, FlS, ObS, bs.117-18



ex.1.28 Graph of points of coordination  
bs.117-43



ex.1.29 Graph of the interaction of three main types of material,  
bs.117-43



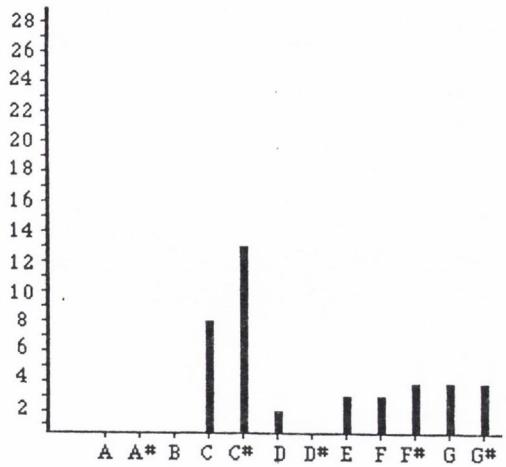
ex.1.30 Boundaries of the sustained lines, bs.121-41

F11 bs.129-32

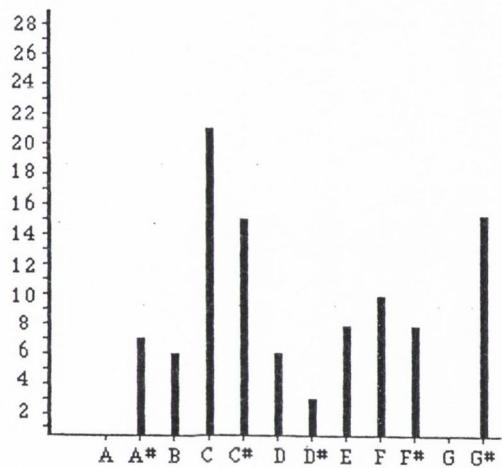
F1S bs.129-31

VCl1 bs.128-37

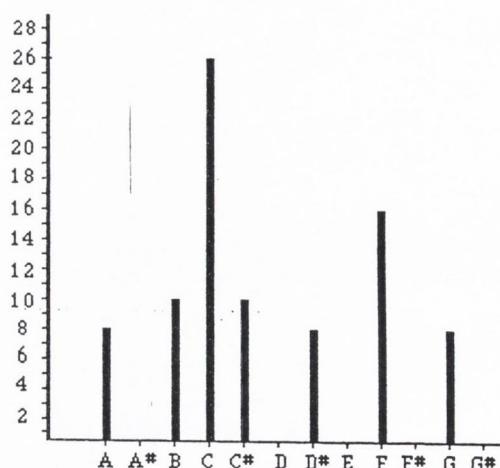
ex.1.31 Rates of descent



b.158



b.159



b.160

ex.1.32 Pitch density, bs.158-60.

Graphs of number of attacks per pitch

ex.2.1 Interaction of violin and horn, bs.1-9

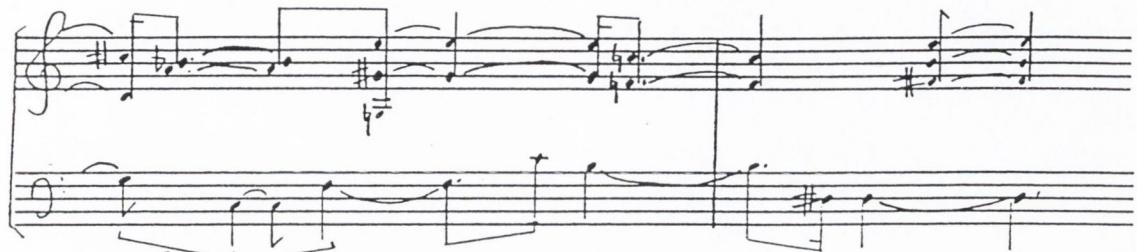
ex.2.2 Wedging movement, violin, bs.1-9

### ex.2.3 Horn subphrases (i)-iii)

#### ex.2.4 Reworking of 8/7 chord, bs.24-5

### ex.2.5 Reworking of 8/7 chord, bs.28-9

### ex.2.6 Linearisation, horn, b.30 and bs.31-2



ex.2.7 Changing sonorities, violin and horn, bs.32-3

ex.2.8 Sustained chords, bs.32-3

ex.2.9 Cadential areas, bs.9 and 19

ex.2.10 Horn/violin chords, bs.35-9

ex.2.11 Familiar intervals, new contexts, bs.60-61

Handwritten musical notation on two staves. The top staff shows a melodic line with eighth-note pairs and sixteenth-note patterns. The bottom staff shows a similar melodic line. Both staves include measure numbers 3 and 3 under the first two measures, and measure 2 under the last measure. Measure 2 includes a key signature change to one sharp.

ex.2.12 Comparison of horn, bs.12 and 91

Handwritten musical notation on three staves. The first two staves each have a single note followed by a bracket labeled '3' underneath. The third staff has a single note followed by a bracket labeled '3' underneath.

ex.2.13 Comparison of notelengths, above bars

Handwritten musical notation on two staves. The first staff shows a series of notes with a bracket underneath. The second staff shows a similar series of notes with a bracket underneath.

ex.2.14 Comparison of notelength in cadential areas, bs.19 & 99-101

A handwritten musical score for four voices (Soprano, Alto, Tenor, Bass) on four staves. The score consists of four systems of music. Each system begins with a clef (G, F, C, C respectively), a key signature, and a tempo marking. The vocal parts are separated by vertical bar lines. The music includes dynamic markings such as 'f' (fortissimo), 'p' (pianissimo), 'ff' (fortississimo), and 'pp' (pianississimo). There are also various rests and grace notes. The handwriting is clear and legible.

ex.2.15 Comparison of the rhythmic profiles of bs.56-9 and 133-6

subphrase 1

subphrase 2

subphrase 3

Cadential gesture

11	B	/			/			/		/			4
10	B <sup>b</sup>			/			/			/		/	4
9	A	/		/		/			/				4
8	A <sup>b</sup>		/			/			/		/	/	5
7	G	/			/		/			/			4
6	F#			/					/			/	3
5	F		/				/			/			4
4	E			/			/			/	/	/	5
3	E <sup>b</sup>	/		/		/				/	/	/	6
2	D				/	/			/		/		5
1	C#			/					/			/	4
0	C		/	/					/		/	/	5

### Subphrase 1

## Subphrase 2

### Subphrase 3

cadential

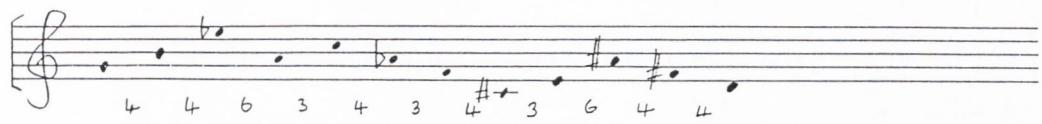
0,3,5,7,8,9,11

1,2,3,4,5,6,7,8,9,10,11

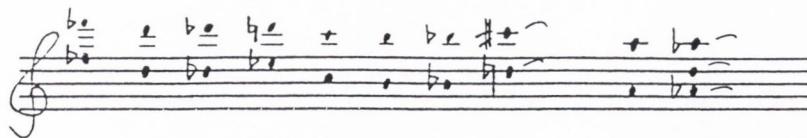
0,1,2,3,4,5,6,7,8,9,10,11

0,1,2,3,4,5,6,8,10

### ex.2.16 Pitch aggregates, bs.1-12



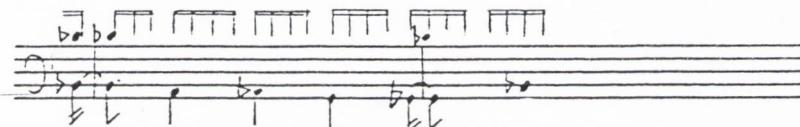
ex.2.17 Symmetrical array (excluding pitch repetitions), bs.1-4



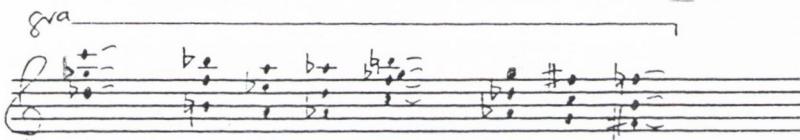
ex.3.1 Phrase (iii) of lamento ostinato, bs.6-9



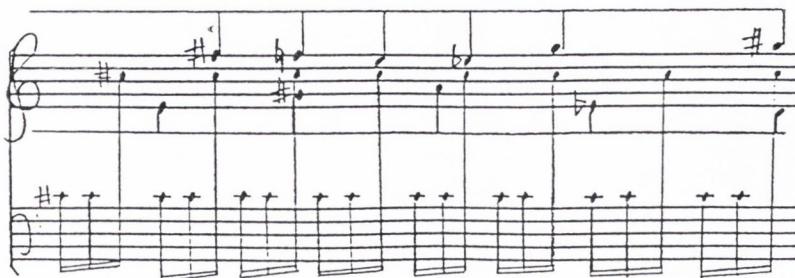
ex.3.2 Movement at bottom of ostinato, bs.13-15



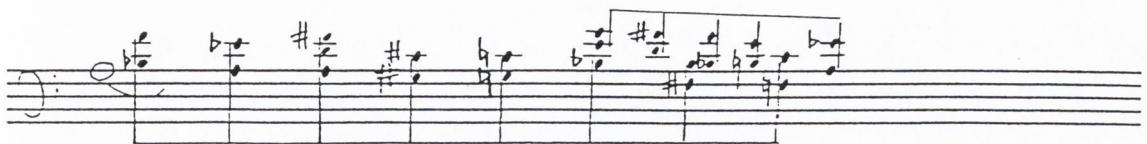
ex.3.3 Inversion of ostinato, bs.20-22



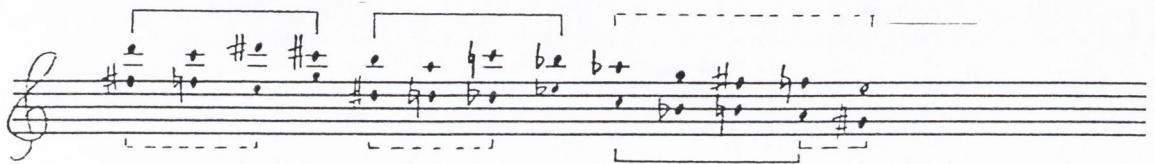
ex.3.4 Intensification of phrase (iii), bs.21-4



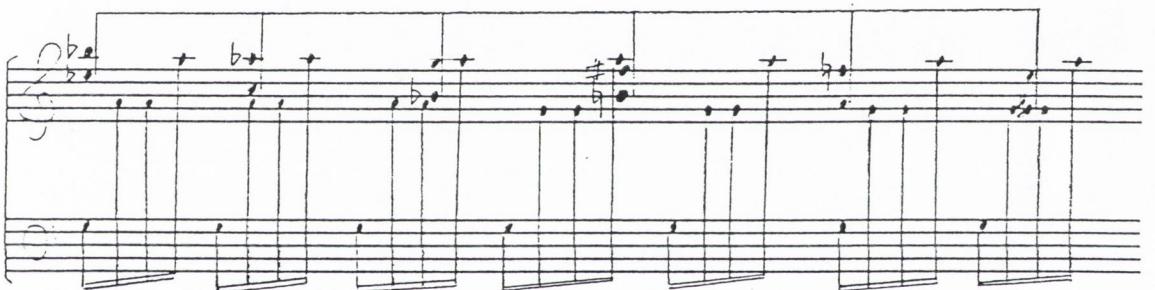
ex.3.5 Regrouping of ostinato and new accentuation, bs.29-32



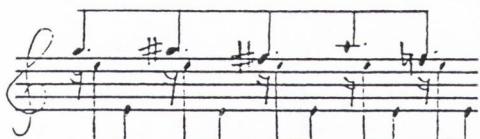
ex.3.6 Breaching of lower limit, bs.34-6



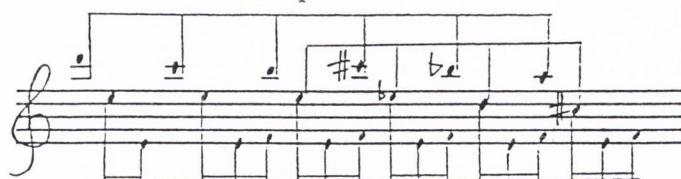
ex.3.7 Sideways chromaticism, bs.37-9



ex.3.8 Shifting limits, ostinato, bs.38-40



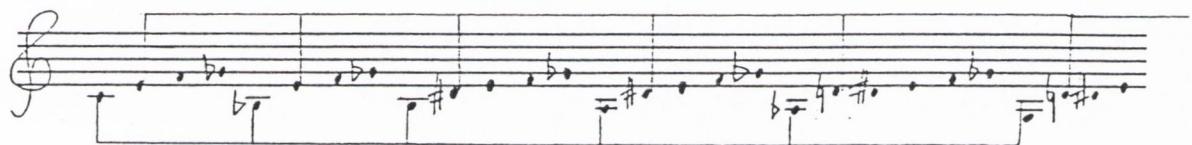
ex.3.9 Cooperation between ostinato and 3-note line, bs.43-4



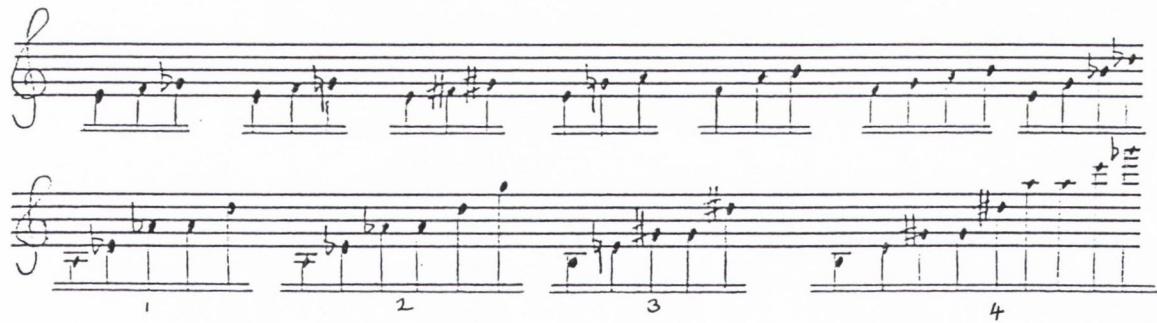
ex.3.10 A new 3-note line, bs.45-6



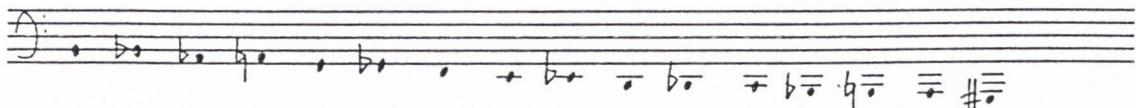
ex.3.11 Registral compression, bs.48-9



ex.3.12 Extension of lower ostinato, bs.48-50



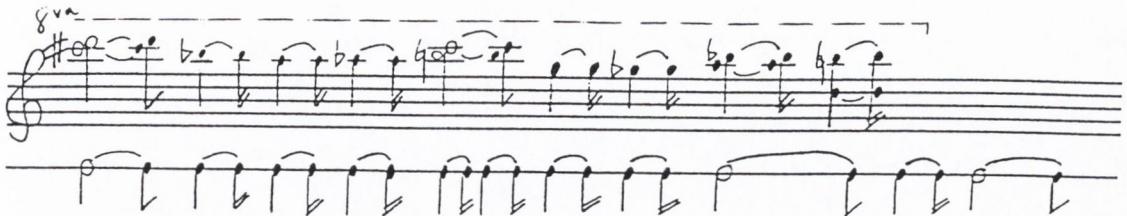
ex.3.13 Widening of ostinato, bs.50-54



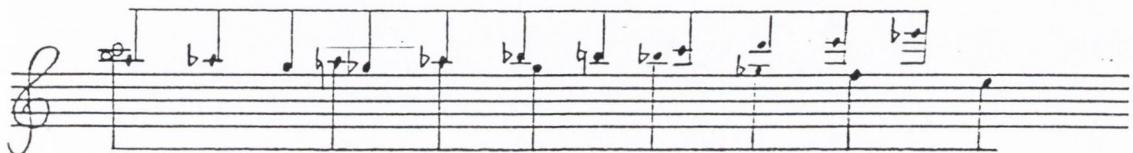
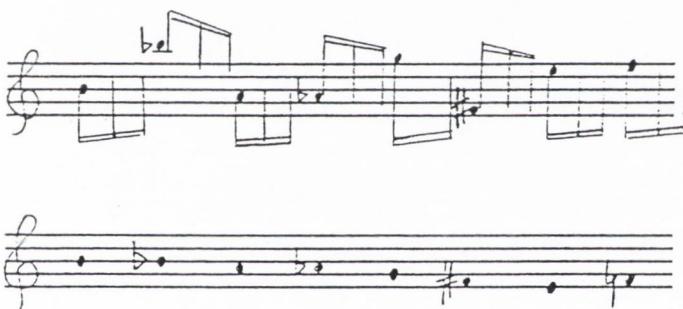
ex.3.14 3♪ line, bs.52-4



ex.3.15 5♪ line, bs.50-54



ex.3.16 Comparison of rhythmic profiles, bs.58-62 and 5-9

ex.3.17 Convergence of ostinato and 4 $\downarrow$  line, bs.76-7

ex.3.18 Regrouping of accented ostinato pitches, bs.82-3



ex.3.19 Chromatic descent on two levels, ostinato bs.83-5



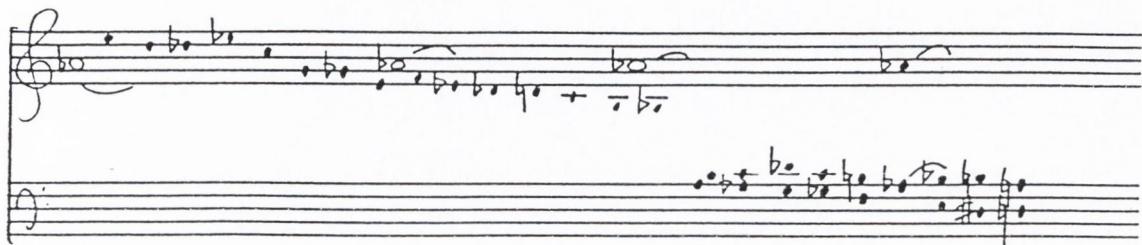
ex.3.20 Descent bounded by ostinato, as expected/ as is, bs.84-5

ex.3.21 Ostinato bs.86-7, with and without octave displacement

ex.3.22 4♪, 3♪ and 5♪ lines, bs. 89-90

ex.3.23 Sideways chromaticism, 4♪ line, bs.90-91

ex.3.24 Registral expansion in 4♪ dyads, bs.91-3



ex.3.25 Descent in 3♪ line, bs.90-94

ex.3.26 Ostinato, with and without octave displacement, bs.94-5

ex.3.27 Possibilities within a 3♪ grouping and actual lines, bs.94-5

ex.3.28 Interaction of ostinato ascent and 7♪ chords, bs.100-105

A handwritten musical score consisting of three staves. The top staff has a treble clef and a key signature of one sharp. The middle staff has a bass clef and a key signature of one sharp. The bottom staff has a bass clef and a key signature of one sharp. The music consists of various note heads and stems, with horizontal brackets above the notes indicating grouping. The grouping is irregular, with some notes grouped together and others separately.

ex.3.29 Irregular groupings, bs.105-7

A handwritten musical score consisting of two staves. The top staff shows a series of eighth notes with vertical stems and horizontal dashes above them, indicating accents. The bottom staff shows a similar pattern of eighth notes, but with different vertical stem directions, representing an alternative rhythmic interpretation.

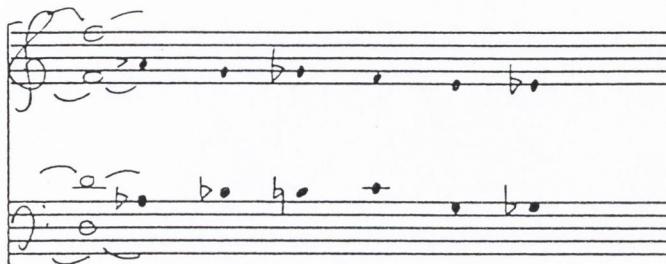
ex.3.30 Actual juxtaposition of accents and an alternative, b.106

A handwritten musical score consisting of two staves. The top staff has a treble clef and a key signature of one sharp. The bottom staff has a bass clef and a key signature of one sharp. The music consists of various note heads and stems, with horizontal brackets above the notes indicating grouping. The grouping is irregular, with some notes grouped together and others separately.

ex.3.31 Complementary sonorities, bs.106-7

A handwritten musical score consisting of two staves. The top staff has a treble clef and a key signature of one sharp. The bottom staff has a bass clef and a key signature of one sharp. The music features an ostinato pattern where certain notes are repeated at regular intervals. The top staff has a prominent eighth-note pattern, while the bottom staff has a sixteenth-note pattern.

ex.3.32 Ostinato activity bs.107-12

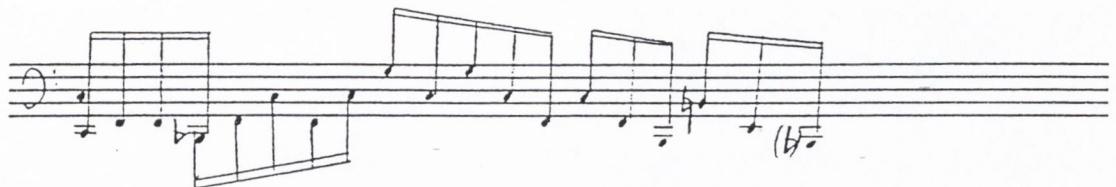


ex.3.33 Convergence and divergence in 4-note lines, bs.108-9

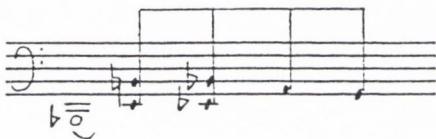
ex.3.34 Movement in ostinato, bs.109-10

ex.3.35 Expected and actual ostinato pattern, bs.111-12

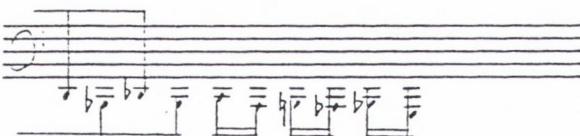
ex.3.36 Adaptation of descending pitch process using octave multiplication, b.112



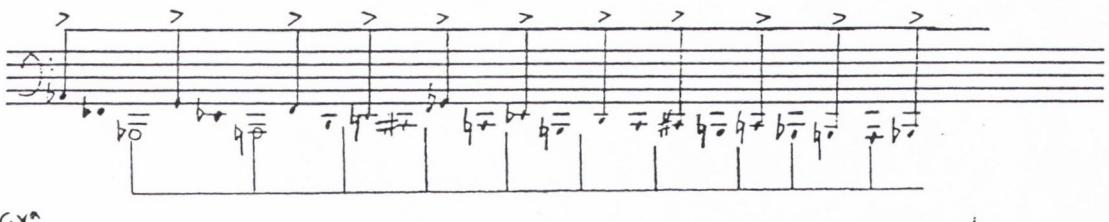
ex.3.37 Symmetrical groups, ostinato bs.113-4



ex.3.38 Fixing of lower limit, b.114



ex.3.39 Sideways chromatic descent, b.115



ex.3.40 Layers of descent, bs.117-9

The image shows two staves of musical notation. The top staff has measures b.91 through b.107. Measure b.91 starts with a bass clef and a key signature of one flat. Measures b.92 and b.93 show a transition with a treble clef and a key signature of one sharp. Measures b.94 through b.107 continue with a treble clef and a key signature of one sharp. The bottom staff begins at b.107 and continues to b.122. It features a bass clef and a key signature of one flat. The notation includes various note heads, stems, and rests, with some notes having horizontal dashes or dots indicating pitch or duration.

ex.3.41 Registral convergence, divergence and descent, bs.91-122

This musical score displays two staves of music. The top staff is labeled "8va" above the first measure. It consists of six measures, each containing a single note head with a stem. Below each note head is a number: 016, 016, 016, 016, 016, 016, 027, 037. The bottom staff also has six measures, each featuring a single note head with a stem. Below each note head is a letter: m, m, m, m, m, m. The notation uses a bass clef and a key signature of one sharp.

ex.3.42 Chord types, bs.30-36

This musical score contains two staves of music. The top staff shows a sequence of chords with a bass clef. The bottom staff shows another sequence of chords with a bass clef. The notation is highly rhythmic, with many eighth and sixteenth note heads. The chords are composed of various note heads connected by horizontal dashes, creating complex harmonic structures.

ex.3.43 Varied chord types derived from chromatic movement, bs.62-72