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Erosion

Matthew Dotson
University of Iowa

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EROSION

by

Matthew Dotson

An Abstract

Of a thesis submitted in partial fulfillment of the requirements for the
Doctor of Philosophy degree in Music in the
Graduate College of The University of Iowa

May 2010

Thesis Supervisor: Professor David K. Gompper

ABSTRACT

In my work I am often drawn to relatively simple systems that unfold before the listener. In *Erosion*, there are several of these processes that unfold simultaneously. The piece begins with a pitch cluster that gradually spreads into total chromatic saturation (about half-way through the piece) before shrinking back into clusters. As this is happening there is, on a macro level, a gradual speeding of events throughout the entire duration of the work. The interactions between this linear progression in the time domain and the (relatively) cyclical progression in the frequency domain form the main dialogue of the work.

Abstract Approved: _____
Thesis Supervisor

Title and Department

Date

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Graduate College
The University of Iowa
Iowa City, Iowa

CERTIFICATE OF APPROVAL

PH.D. THESIS

This is to certify that the Ph. D. thesis of

Matthew Dotson

has been approved by the Examining Committee
for the thesis requirement for the Doctor of Philosophy
degree in Music at the May 2010 graduation.

Thesis Committee: _____
David Gompper, Thesis Supervisor

Lawrence Fritts

Daniel Moore

Jerry Cain

Jennifer Kayle

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INSTRUMENTATION

1 flute, piccolo
1 oboe
1 clarinet in B flat, bass-clarinet
1 bassoon, contra-bassoon*

1 horn in F
1 trumpet in B flat
1 trombone

percussion (2 players):

Percussion 1:

Vibraphone (played with bass bow as well as mallets)
Triangle
Ride Cymbal (bowed as well as struck)
Snare Drum
2 Shakers of different pitch
Woodblock
Medium Tam Tam (bowed as well as struck)
Large Tam Tam

Percussion 2:

Vibraphone (played with bass bow as well as mallets)
Chimes
Medium-Sized Suspended Cymbal (bowed as well as struck)
Piccolo Snare Drum
2 Bongos
High Tom



Hi Tom Lo Bongo Hi Bongo Snare Drm. Sus. Cym.

Changes in vibraphone motor speeds are indicated by an arrow.

1 piano
2 violins
1 viola

1 cello
1 contrabass

* If contrabassoon is impractical, this section (mm. 83-98) can be played on bassoon.

All instruments are notated with the usual transpositions. Accidentals hold throughout the measure.

Instruments are arranged in the traditional manner with one slight alteration: the percussionists should be as far apart from each-other as possible while still being accessible to the conductor. This is so they may be acoustically separated.

This work was premiered by the University of Iowa Center for New Music under the direction of David Gompper on March 26th, 2010 and is dedicated to them.

Duration: ca. 13'

Transposing Score

Erosion

for 15 Instruments

Matthew Dotson

♩ = 63

The score is for a 15-instrument ensemble. The top section includes woodwinds (Flute, Oboe, Clarinet in Bb, Bassoon), brass (Horn in F, Trumpet in Bb, Trombone), and Percussion. The middle section includes Vibraphone and Piano. The bottom section includes strings (Violin 1, Violin 2, Viola, Violoncello, Contrabass). The time signature is 4/4. The tempo is marked as ♩ = 63. The key signature is one sharp (F#). The score shows the first few measures of the piece. The Percussion part includes a triangle, vibraphone (motor off), and mallets. The Vibraphone part includes arco w/ bass bow and mallet. The Violin 1 and 2 parts include sul pont. (sul ponticello) markings. The Viola part also includes sul pont. markings. The Piano part is currently silent. The string parts (Violin 1, Violin 2, Viola, Violoncello, Contrabass) are mostly silent in the first few measures, with some activity in the later measures.

8

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib. arco motor on slow med. slow fast

Vib. mallet motor on med. mallet fast slow arco

Pno.

Vln. 1 (s.p.)

Vln. 2

Vla. sul pont. p

Vc. sul pont. p

Cb. (sounds an octave lower) p

15 A

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib. \rightarrow med. \rightarrow med. \rightarrow slow slow To Perc. motor off \rightarrow Percussion (wood blk.) hard mallet \rightarrow p p p p 3

Vib. \rightarrow slow \rightarrow med. \rightarrow slow motor off struck \rightarrow p p p

Pno.

Vln. 1 \rightarrow ord. \rightarrow p \rightarrow p A

Vln. 2 (s.p.) \rightarrow ord. \rightarrow p \rightarrow p (s.p.) \rightarrow ord. \rightarrow p

Vla. \rightarrow p (s.p.) \rightarrow ord. \rightarrow p

Vc. \rightarrow ord. \rightarrow p

Cb. \rightarrow p

\rightarrow p

Detailed description: This page of a musical score contains staves for woodwinds, strings, and percussion. The woodwind section (Flute, Oboe, Clarinet, Bassoon) and string section (Violin 1, Violin 2, Viola, Violoncello, Contrabass) are mostly silent in this section, with only the Flute and Violin 1 staves showing a few notes and dynamics. The Vibraphone section is active, with two parts playing melodic lines. The first Vibraphone part starts with a 'med.' dynamic and transitions to 'slow', then 'To Perc.' and 'motor off'. The second part starts with 'slow' and 'med.', then 'slow', 'motor off', and 'struck'. Percussion includes wood blocks and a hard mallet. The score is marked with 'p' (piano) throughout. A section marker 'A' is placed above the Flute and Violin 1 staves.

22

Fl. *p* *mp* *p*

Ob. *mf* *p* *mp*

Cl. *mf* *p*

Bsn.

Hn.

Tpt.

Tbn.

Perc. *mf* *p* (hi shaker)

Vib. *mf* *mp*
Ped.

Pno. *mf*

Vln. 1 *mf* *p* *mp*

Vln. 2 *mf* *p*

Vla. *mf*

Vc. *mf*

Cb.

Detailed description: This page of a musical score covers measures 22 through 25. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), and Bassoon (Bsn.). The brass section includes Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The percussion (Perc.) part features a hi shaker with rhythmic patterns in measures 22-24, indicated by numbers 5, 6, 7, and 3. The vibraphone (Vib.) and piano (Pno.) parts provide harmonic support. The string section consists of Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). Dynamics range from piano (*p*) to mezzo-forte (*mf*). The score includes various musical notations such as slurs, accents, and articulation marks.

26

Fl. *p* *mp* *p* *mp*

Ob. *p* *p* *mp* *p* *mp* *p*

Cl. *mp* *p* *p* *mp* *p* *mp* *p*

Bsn.

Hn.

Tpt.

Tbn.

Perc. (low shaker) *mp*

Vib. *p* *mp* *mp* *mp* *mp*

Pno. *mf* *mp* *mp* *mp*

Vln. 1 (ord.) *p* *s.p.*

Vln. 2 *mp* (ord.) *p* *s.p.*

Vla. *p* *mp* (ord.) *p* *s.p.*

Vc. *s.p.*

Cb.

Detailed description: This page of a musical score covers measures 26 through 30. The woodwind section (Flute, Oboe, Clarinet, Bassoon) has active parts with dynamic markings of *p* (piano) and *mp* (mezzo-piano). The Percussion part features a low shaker with a *mp* dynamic. The Vibraphone and Piano parts also have dynamic markings. The string section (Violins 1 & 2, Viola, Violoncello, and Contrabass) includes first and second endings, with dynamics ranging from *p* to *s.p.* (sotto piano). The Bassoon part is silent throughout the measures.

31

Fl. *mp*

Ob. *mp*

Cl. *mp*

Bsn.

Hn.

Tpt.

Tbn.

Perc. *mp*

Vib. *mp*

Pno. *mp*

Vln. 1

Vln. 2

Vla. *ord.* *s.p.* *ord.*

Vc. *mp*

Cb.

35

Fl. *p*

Ob. *p*

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Perc. *mp*

Vib. *mp*

Pno. *mp*

Vln. 1

Vln. 2

Vla.

Vc. *s.p.* *ord.* *mp*

Cb.

Detailed description: This page of a musical score covers measures 35 and 36. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), and Bassoon (Bsn.). The brass section includes Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The percussion (Perc.) part features a complex rhythmic pattern with triplets and sextuplets, marked *mp*. The vibraphone (Vib.) and piano (Pno.) parts play sustained chords, also marked *mp*. The string section consists of Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Double Bass (Cb.). The Vc. part has a melodic line in measure 35, marked *s.p.* (sordano), and a chord in measure 36, marked *ord.* (ordinario) and *mp*. The Fl. and Ob. parts have long, sustained notes in measure 35, marked *p*.

37

Fl. *mp*

Ob. *mp*

Cl. *p* *mp*

Bsn. *mp*

Hn.

Tpt.

Tbn.

Perc. 6 5 3 7 6 5 3 3 3

Vib. *mp*

Pno. *mp*

Vln. 1 ord. *mp*

Vln. 2 ord. *mp*

Vla. ord. *mp*

Vc. *mp*

Cb. ord. *mp*

mp *mp*

Detailed description: This page of a musical score covers measures 37 to 40. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), and Bassoon (Bsn.), all playing melodic lines with *mp* dynamics. The string section (Violins 1 & 2, Viola, Violoncello, and Contrabass) provides harmonic support, with some parts marked *ord.* and *mp*. The Percussion part features a complex rhythmic pattern with sixteenth-note runs and triplets, indicated by numbers 6, 5, 3, 7, 6, 5, 3, 3, 3. The Piano part has a similar rhythmic accompaniment. The overall texture is dense and melodic.

41

Fl. *p* *tr* *mp* **B**

Ob. *p* *tr* *mp*

Cl. To B. Cl.

Bsn. *p* *tr* *mp*

Hn. *p* *tr* *mp* open

Tpt.

Tbn.

Perc. *mp* 5 5 6 6 7 7

Vib. *mp* *tr*

Pno. *mp* *tr* *mp* 3

Vln. 1 *s.p.* *p* *ord.* *mp* **B**

Vln. 2 *p* *s.p.* *ord.* *mp*

Vla. *p* *s.p.* *ord.* *mp*

Vc. *ord.* *s.p.* *mp*

Cb. *(ord.)* *s.p.* *ord.* *mp*

44

Fl.

mp

Ob.

Bass Clarinet
in B \flat

B. Cl.

mp

Bsn.

p

mp

p

3

Hn.

p

mp

p

3

p

mp

3

Tpt.

Tbn.

Perc.

Vib.

Pno.

3

Vln. 1

s.p.

ord.

mp

Vln. 2

s.p.

mp

Vla.

s.p.

ord.

mp

p

mp

Vc.

p

mp

p

mp

Cb.

p

mp > p

mp

49

Fl. *mp* *fp* *fp* *fp*

Ob. *mp* *fp* *fp* *mf*

B. Cl. *mp* *mf*

Bsn. *p* *mp* *mf*

Hrn. *p* *p* *mp* *mf*

Tpt.

Tbn.

Perc.

Vib. Percussion med. mallets *mf*

Pno. *mf*

Vln. 1 *mp* *fp* *fp*

Vln. 2 *mp* *fp* *fp* *fp* *fp*

Vla. *mp*

Vc. *p* *mf p* *mf*

Cb. *p* *mf p* *mf*

Detailed description: This page of a musical score covers measures 49 to 52. The woodwind section (Flute, Oboe, Bass Clarinet, Bassoon) features melodic lines with trills and dynamic markings ranging from mezzo-piano (mp) to fortissimo (fp). The string section (Violins 1 & 2, Viola, Violoncello, Contrabass) provides harmonic support with various articulations and dynamics, including piano (p) and mezzo-forte (mf). The Percussion part includes Vibraphone (Vib.) with mallets and Piano (Pno.) with triplet patterns. The score is written in a key signature of one flat and a 4/4 time signature.

54

Fl. *fp* *mf* *p*

Ob. *fp* *fp* *mf* *p* To Cl.

B. Cl. *p* To Cbsn.

Bsn. muted

Hn. *p* *mp* *f* mute on

Tpt. *mf*

Tbn. *mp* *f* mute on

Perc. to Snare Snare Drum

Perc. (snare off) *p* *mf*

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

Detailed description: This page of a musical score covers measures 54, 55, and 56. The woodwind section includes Flute (Fl.), Oboe (Ob.), Bass Clarinet (B. Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The brass section includes Percussion (Perc.), Snare Drum, and Piano (Pno.). The string section includes Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The score features various dynamics such as *fp*, *mf*, *p*, *mp*, and *f*. Performance instructions include 'muted', 'mute on', and 'snare off'. The Percussion part includes a triplet of eighth notes and a snare drum part with a 'to Snare' instruction. The Piano part features a triplet of eighth notes. The string parts are mostly sustained notes with some movement in the lower strings.

57 C

Fl.

Ob.

B. Cl.

Bsn.

Hn.

Tpt.

Tbn.

S. D.

Perc.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

Clarinet in B \flat

sticks (snares off)

p *mf* *fp* *f*

5 6 7 6 7

p *mf* *p* *mf* *p* *mf*

f

p

C

60

Fl. *mf*

Ob. *mf*

Cl. *mf*

Bsn.

Hn. *fp fp fp fp fp f*

Tpt. *fp fp fp fp f fp fp*

Tbn. *fp fp fp fp fp*

S. D. *p mf p p*

Perc. *p mf*

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

Detailed description: This page of a musical score contains measures 60, 61, and 62. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The string section includes String Bass (S. D.), Percussion (Perc.), Piano (Pno.), Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The woodwinds play melodic lines with dynamics like *mf* and *f*. The brass section plays rhythmic patterns with dynamics like *fp* and *f*. The string bass and percussion provide accompaniment with dynamics like *p* and *mf*. The piano, violins, viola, and cellos/contrabasses are currently silent in these measures.

63

Fl. *mf*

Ob. *mf*

Cl. *mf*

Bsn.

Hn. *fp* *fp* *fp* *fp*

Tpt. *fp* *fp* *fp* *fp* *fp* *fp*

Tbn. *fp* *fp* *fp* *fp* *fp* *fp*

S. D. *mf* *p* *p* *mf* *p*

Perc. *p* *p* *mf* *p*

Pno.

Vln. 1 *f* *p* *mf*

Vln. 2 *f* *p* *mf*

Vla. *f* *p* *mf*

Vc. *f* *p* *mf*

Cb.

Detailed description: This page of a musical score covers measures 63 to 66. The woodwind section (Flute, Oboe, Clarinet, Bassoon) plays a melodic line starting in measure 64 with a mezzo-forte (*mf*) dynamic. The brass section (Horn, Trumpet, Trombone) plays a rhythmic pattern of eighth notes starting in measure 64 with a fortissimo-piano (*fp*) dynamic. The strings (Violin 1, Violin 2, Viola, Violoncello) play a sustained melodic line starting in measure 63, with dynamics ranging from forte (*f*) to piano (*p*) and mezzo-forte (*mf*). The percussion section (S. D., Perc.) plays a rhythmic pattern starting in measure 63 with dynamics ranging from piano (*p*) to mezzo-forte (*mf*). The piano and double bass parts are silent throughout the page.

68

Fl. *mf*

Ob. *mf*

Cl. *mf*

Bsn.

Hrn. *fp* *fp* *fp* *fp* *fp* *fp* *fp* *fp* *fp*

Tpt. *fp* *fp* *fp* *fp* *fp* *fp* *fp* *fp*

Tbn. *fp* *fp* *fp* *fp* *fp* *fp* *fp*

S. D. *mf* *p* *mf* *p* *mf*

Perc. *mf* *p* *p* *mf* *fp* *mf*

Pno.

Vln. 1 *f* *mp* *f* *sul tasto*

Vln. 2 *f* *mp* *f* *sul tasto*

Vla. *f* *mp* *f* *sul tasto*

Vc. *f* *mp* *f* *sul tasto*

Cb.

ord. → s.p. → sul tasto

ord. → s.p. → sul tasto

ord. → s.p. → sul tasto

ord. → s.p. → sul tasto

73

Fl. *mf* *mf* *mf* *f*

Ob. *mf* *f*

Cl. *mf* *mf* *mf* *f*

Bsn.

Hn. *fp* *fp* *mf* *mf* *f*

Tpt. *fp* *fp* *mf* *f*

Tbn. *fp* *fp* *mf* *f*

S. D. *p* *mf* *p*

Perc. *p* *mf* *p*

Pno.

Vln. 1 *ord.* *fp* *mf* *fp* *mf*

Vln. 2 *ord.* *fp* *mf* *fp* *mf*

Vla. *ord.* *sul tasto* *fp* *mf*

Vc. *ord.* *sul tasto* *fp* *mf*

Cb.

D

77

Fl. *p* *f* *p*

Ob. *p*

Cl. *p* To B. Cl.

Bsn.

Hn. *p*

Tpt. *p*

Tbn. *p*

S. D. *f* *p*

Perc. *f* *p* 7 6 5 3

Pno.

D

Vln. 1 *f* *mf*

Vln. 2 *f* *p* ord. s.t.

Vla. *f* *p* ord. s.t.

Vc. *f* *p*

Cb.

80

Fl.

Ob.

Cl.

Bsn.

Bass Clarinet in B \flat

Contrabassoon

Hn.

Tpt.

Tbn.

S. D.

Perc.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p *mf* *p* *mf* *p* *mf* *p*

mf *p* *mf* *p* *mf* *p* *mf*

ord.

ord.

p

85

Fl. *mf* *p* *mf*

Ob. *mf* *p*

B. Cl. *mf* *p* *mp* *p* *mf* *p*

Cbsn. *mf* *p* *mf* *p* *mf*

Hn. *mf* *p* *mf* closed

Tpt.

Tbn.

S. D.

Perc.

Pno.

Vln. 1 *mf* *p* *mf* *p* *mf*

Vln. 2 *p* *mf* *p* *mf* *p* *mf* *p* s.p.

Vla. *mf* *p* *mf* s.p.

Vc. *mf* *p* *mf* *p*

Cb. *mf* *p* *mf* *p* *mf*

89

Fl. *p* *mf* *p* *mf* *p* *mf* *mf*³

Ob. *mf* *p* *mf* *p* *mf* *p* *mf*

B. Cl. *mf* *p* *mf* *p* *mf*

Cbsn. *p* *mf* *p* *mf* *p*

Hn. *p* *mf* *p* *mf* *p* *mf*

Tpt.

Tbn.

S. D.

Perc.

Pno.

Vln. 1 *p* *mf* *p* *mf* *p* *mf* *mf*³

Vln. 2 *mf* *p* *mf* *p* *mf* *p* *mf*

Vla. *p* *mf* *p* *mf* *p* *mf*

Vc. *mf* *p* *mf* *p* *mf*

Cb. *p* *mf* *p* *mf* *p*

93 To Picc.

Fl. *p* *mf* *p*

Ob. *p* *mf* *p* *mf*³

B. Cl. *p* *mf* *p*

Cbsn. *mf* *p* *mf*

Hn. *p* *mf* *p*

Tpt.

Tbn.

S. D.

Perc.

Pno.

Vln. 1 *p* *mf* *p* *mf*

Vln. 2 *p* *mf* *p* *mf*³

Vla. *p* *mf* *p*

Vc. *p* *mf* *p*

Cb. *mf* *p* *mf*

Detailed description: This page of a musical score covers measures 93, 94, and 95. The woodwind section (Flute, Oboe, Bass Clarinet, Contrabassoon) and string section (Violins 1 & 2, Viola, Violoncello, Contrabass) are active. The brass section (Horn, Trumpet, Trombone) and percussion (Snare Drum, Percussion) are present but mostly silent. The piano part is also silent. Dynamics range from piano (*p*) to mezzo-forte (*mf*). The score includes various musical notations such as slurs, accents, and articulation marks. Specific performance instructions like 'To Picc.' are noted at the top right. Measure numbers 93, 94, and 95 are clearly marked at the beginning of each measure.

96 Piccolo

Fl. *p* *mf*

Ob. *p*

B. Cl. *mf* *p*

Cbsn. *p* To Bsn.

Hn. *mf* *p* *mf* *p*

Tpt.

Tbn.

S. D. To Perc.

Perc. To Perc.

Pno.

Vln. 1 *p* *mf* *p* *mf* ord.

Vln. 2 *p* *mf* *p* *mf* ord.

Vla. *mf* *p* *mf* *p* *mf* ord.

Vc. *mf* *p* *mf* ord.

Cb. *p* *mf* ord.

99

Picc. *f* *f*

Ob.

B. Cl.

Cbsn.

Hn.

Tpt.

Tbn.

S. D. Percussion (sus. cym.) med. mallets *ff*

Perc. *p* *ff*

Pno.

Vln. 1 *p* *mf* *f*
s.t. s.p. ord.

Vln. 2 *p* *mf* *f*
s.t. s.p. ord.

Vla. *p* *mf* *f*
s.t. s.p. ord.

Vc. *p* *mf* *f*
sul tasto s.p. ord.

Cb. *p* *mf* *f*

E

103

Picc. *To Fl.* *Flute*

Ob. *p*

B. Cl. *f*

Cbsn.

Hn.

Tpt.

Tbn.

Perc. *(large tam tam)* *p*

Perc. *To Chimes* *Chimes* *mf* *Ped.*

Pno.

Vln. 1 *p* *ord.* *5* *mf*

Vln. 2 *p* *ord.* *mf*

Vla. *p* *ord.* *mf*

Vc. *p* *ord.* *3* *mf* *s.p.*

Cb. *p* *ord.* *3* *mf* *s.p.*

107

Fl.

Ob.

B. Cl.

Cbsn. Bassoon *f*

Hn.

Tpt.

Tbn.

Perc.

Chim.

Pno.

Vln. 1 *p* *s.p.*

Vln. 2 *p* *s.p.*

Vla. *p*

Vc. 5 5

Cb. 5 5

110

Fl.

Ob.

B. Cl.

Bsn.

Hn.

Tpt.

Tbn.

Perc. (med. tam tam) *p*

Chim. *f*

Pno. *f* *8va* *ped.*

Vln. 1

Vln. 2

Vla. *ord.* *s.p.*

Vc. (s.p.) *f* *mf* *ord.* *s.p.*

Cb. (s.p.) *f* *mf* *ord.* *s.p.*

117

Fl.

Ob.

B. Cl.

Bsn.

Hn. *open* *f* *mute off*

Tpt. *f*

Tbn. *f*

Perc. *f* *p* *f* *p*

Chim.

Pno. *8^{va}* *8^{vb}*

Vln. 1 *s.p.* *f* (s.p.)

Vln. 2 (s.p.)

Vla. (s.p.)

Vc. (s.p.)

Cb. (s.p.)

Detailed description of the musical score: The score is for page 29, measures 117-120. It features a complex orchestral arrangement. The woodwinds (Flute, Oboe, Bass Clarinet, Bassoon) play intricate, rhythmic patterns. The brass section (Horn, Trumpet, Trombone) provides a strong harmonic foundation, with the Horn playing a melodic line that includes a 'mute off' instruction. The Percussion part is highly active, alternating between fortissimo (f) and piano (p) dynamics. The Chimes and Piano parts feature sustained chords, with the Piano part including octave markings (8^{va} and 8^{vb}). The string section (Violin 1, Violin 2, Viola, Violoncello, Contrabass) plays a sustained, low-register accompaniment, with the Violin 1 part marked 's.p.' (sordato) and 'f'.

accel. ♩ = 69 **F** ♩ = 138

120

Fl. *ff* *p* 3 3 *ff*

Ob. *ff* *p* 3 3 *ff*

B. Cl. *ff* *p* 3 3 *ff*

Bsn. *ff* *p* 3 3 *ff*

Hn. *ff* *p* 3 3 *ff*

Tpt. *ff* *p* 3 3 *ff*

Tbn. *ff* *p* 3 3 *ff*

Perc. *ff* (snare) *p* *ff* To Vib. (hard mallets) *p* *ff* To Vib. (hard mallets) *p* *ff*

Chim. *ff* *p* *ff* *p* *ff*

Pno. *ff* *ff* *ff* *p* *ff*

Vln. 1 *ff* ord. *p* s.t.

Vln. 2 *ff* ord. *p* s.t.

Vla. *ff* ord. *p* s.t.

Vc. *ff* ord. *p* s.t.

Cb. *ff* ord. *p* s.t.

♩ = 69 **F** ♩ = 138

125

Fl. *ff*

Ob. *ff*

B. Cl. *ff* To Cl.

Bsn. *ff*

Hn. *ff*

Tpt. *ff*

Tbn. *ff*

Vib. *ff*

Vib. *ff*

Pno. *ff*

Vln. 1 *ff* s.p. ord.

Vln. 2 *ff* s.p. ord.

Vla. *ff* s.p. ord.

Vc. *ff* s.p. ord.

Cb. *ff* s.p.

132

Fl. *p* *f*

Ob. *p* *f*

Cl. *p* *f*

Bsn. *p* *f*

Hn. *p* *f*

Tpt. *p* *f*

Tbn. *p* *f*

Vib. *p* *f* *p* *f* *p* *f*

Vib. *p* *f* *p* *f*

Pno.

Vln. 1 *p* *f* *f*

Vln. 2 *p* *f* *f*

Vla. *p* *f*

Vc. *p* *f*

Cb. *f*

Detailed description: This page of a musical score covers measures 132, 133, and 134. The woodwind section (Flute, Oboe, Clarinet, Bassoon) features melodic lines with dynamic markings of *p* and *f*. The brass section (Trumpet, Trombone) plays rhythmic patterns, with the Trombone part showing a *p* to *f* crescendo. The percussion section includes two Vibraphone parts with complex rhythmic patterns and dynamic markings of *p* and *f*. The string section (Violin 1, Violin 2, Viola, Violoncello, Contrabasso) provides harmonic support with sustained notes and dynamic markings of *p* and *f*. The Piano part is mostly silent, indicated by rests.

136

Fl. *p* *f*

Ob. *p*

Cl. *p*

Bsn. *p*

Hn. *p* *p*

Tpt. *p* *p*

Tbn. *p*

Vib. *p* *f*

Vib. *p* *f*

Pno. *f*

Vln. 1 *mf* *f* slide to B

Vln. 2 *mf* *f* slide to B \flat

Vla. *mf* *f* slide to A

Vc. *mf* *f* slide to A \flat

Cb. *mf* *f* slide to G

Detailed description: This page of a musical score covers measures 136, 137, and 138. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The string section includes Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The piano (Pno.) part is also present. The score features various dynamics such as *p* (piano), *f* (forte), and *mf* (mezzo-forte). The woodwinds and strings play melodic lines with some slurs and accents. The piano part has a prominent *f* dynamic in measure 137. The string parts have specific instructions for slides in measure 138: Vln. 1 to B, Vln. 2 to B \flat , Vla. to A, Vc. to A \flat , and Cb. to G.

139

Fl. *p* *f*

Ob. *f*

Cl. *f*

Bsn. *p* *f*

Hn. *f*

Tpt. *f* *f*

Tbn. *f* *f*

Vib. *f* *p* *f*

Vib. *p* *f* *p* *f* *p*

Pno. *p*

Vln. 1 *mf* *f* *mf*

Vln. 2 *mf* *f* *mf*

Vla. *mf* *f* *mf*

Vc. *mf* *f* *mf*

Cb. *mf* *f* *mf*

Detailed description: This page of a musical score covers measures 139, 140, and 141. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The brass section includes Vibraphone (Vib.). The piano (Pno.) and string sections (Violins 1 and 2, Viola, Violoncello, and Contrabass) are also present. The score features dynamic markings such as *p* (piano), *f* (forte), and *mf* (mezzo-forte). The woodwinds and brass play rhythmic patterns, while the strings provide a steady accompaniment. The piano part has a melodic line in the right hand and rests in the left hand.

142

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

f

p

f

p

f

mf

f

mf

f

mf

145

Fl. *mf* *f*

Ob. *p* *f*

Cl. *mf* *f*

Bsn. *p* *f*

Hn. *p* *fp* *fp*

Tpt. *p* *fp*

Tbn. *p* *fp*

Vib. *p* *f* *f*

Vib. *p* *f* *f*

Pno. *f*

Vln. 1 *f* slide to B \flat

Vln. 2 *f* slide to A

Vla. *f* slide to A \flat

Vc. *f* slide to G

Cb. *f* slide to F \sharp

Detailed description: This page of a musical score covers measures 145, 146, and 147. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The string section includes Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The Percussion section includes Vibraphone (Vib.) and Piano (Pno.). The score shows various dynamics such as *mf*, *f*, *p*, and *fp*. The woodwinds and strings play complex rhythmic patterns, often with slurs and accents. The strings have specific instructions to 'slide' to certain notes (B \flat , A, A \flat , G, F \sharp). The piano part has a prominent *f* dynamic in measure 147. The vibraphone part features a triplet in measure 147.

148

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

f

p

mf

p f

p

p

f

p

mf

mf

mf

mf

This page contains a musical score for measures 148 to 150. The instruments listed are Flute, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone, Vibraphone (two parts), Piano, Violin 1, Violin 2, Viola, Violoncello, and Contrabass. The score includes various musical notations such as notes, rests, dynamics (*f*, *p*, *mf*, *p f*), and articulation marks. The woodwinds and vibraphone parts are highly active, while the strings play sustained notes.

154

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

157

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

fp *fp* *fp* *fp* *fp* *fp*

fp *fp* *fp* *fp* *fp* *fp*

p *f* *p* *f* *p* *f*

p *f* *p* *f* *p* *f*

160

Fl. *ff*

Ob. *ff*

Cl. *ff*

Bsn. *ff*

Hn. *fp fp fp fp fp ff*

Tpt. *fp fp fp fp fp ff*

Tbn. *fp fp fp fp fp ff*

Vib. *f* *3* *p* *ff* To Perc.

Vib. *p* *pf* *ff*

Pno. *f* *ff*

Vln. 1 slide to A \flat *ff mf* 7

Vln. 2 slide to G *ff mf*

Vla. slide to G \flat *ff mf*

Vc. slide to F *ff mf*

Cb. slide to E *ff mf*

Detailed description: This page of a musical score covers measures 160 to 162. The woodwind section (Flute, Oboe, Clarinet, Bassoon) and brass section (Horn, Trumpet, Trombone) play complex melodic lines with various articulations and dynamics, including *ff* (fortissimo) and *fp* (fortissimo piano). The vibraphone (Vib.) features a triplet of eighth notes in measure 160, followed by a *p* (piano) dynamic and a triplet of sixteenth notes in measure 161, leading to a *ff* (fortissimo) dynamic in measure 162. The piano (Pno.) part has a *f* (forte) dynamic in measure 161 and *ff* in measure 162. The string section (Violins 1 & 2, Viola, Violoncello, Contrabass) plays a rhythmic accompaniment of eighth notes, with specific pitch slides indicated: Violin 1 slides to A \flat , Violin 2 to G, Viola to G \flat , Violoncello to F, and Contrabass to E. Dynamics for the strings range from *ff* to *mf*.

163

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

ff

p

ff

p

ff

p

ff

6

5

7

6

5

7

6

5

7

6

7

$\text{♩} = \text{♩} = 69$

H

165

Fl. *p* To Picc.

Ob. *p* *ff*

Cl. *p* *ff*

Bsn. *p*

Hn.

Tpt.

Tbn.

Vib.

Vib.

Pno. 7 7 7 6

$\text{♩} = \text{♩} = 69$

H

ord. 3

Vln. 1

Vln. 2

Vla. 3

Vc. 5 3 3

Cb. 6 5 3

167

Fl.

Ob. *p* *mf*

Cl. *p*

Bsn. *p*

Hn.

Tpt. *mf*

Tbn. *p*

Percussion

(hi shaker) *mf*

(low shaker) *mf*

Vib. *p* *mf* *mf* *mf*

Pno. *mf*

Vln. 1 *p* *s.p.*

Vln. 2 *p* *s.p.*

Vla. *p*

Vc. *p* *s.p.*

Cb. *p*

Detailed description: This page of a musical score covers measures 167 through 171. It features a full orchestral ensemble. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The string section includes Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). Percussion includes hi shaker and low shaker. The piano part (Pno.) is also present. The score is in 3/4 time and features various dynamics such as piano (*p*), mezzo-forte (*mf*), and sforzando (*f*), along with articulation like accents and slurs. The woodwinds and strings play sustained or moving lines, while the percussion provides rhythmic texture. The piano part features intricate patterns with triplets and sixteenth-note runs.

173

I
Piccolo

Fl. *mp* 3

Ob. *mp* 3

Cl. *mf* *p* *mf* *mp*

Bsn. *p* *mf* *mp*
open

Hn. *mf* *p* *mf* *mp*
mute off

Tpt. *mp*
mute off

Tbn. *mf* *p* *mf* *mp*
mute off

Perc. *mf* *mf* *mf*
7 6 5 3 3

Vib. *mf* *mf* *mf*
3 3 5 6

Pno. *mf*
3 5 6

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

Detailed description: This page of a musical score covers measures 173, 174, and 175. The woodwind section includes Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (Tpt.), and Trombone (Tbn.). The percussion section includes Percussion (Perc.), Vibraphone (Vib.), and Piano (Pno.). The string section includes Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). Measure 173 shows various dynamics such as *mf*, *p*, and *mp*. Measure 174 features a first ending bracket labeled 'I' and includes performance instructions like 'open' for the Bassoon and 'mute off' for the Horn and Trombone. Measure 175 continues with complex rhythmic patterns, including triplets and sixteenth-note runs, with dynamics ranging from *mf* to *mp*.

176 $\text{♩} = 138$

Picc. f mf

Ob. f mf

Cl. f mf

Bsn. f mf

Hn. f mf

Tpt. f mf

Tbn. f mf

Perc. p

Vib. f

Pno. f

Vln. 1 ord. mf

Vln. 2 ord. mf

Vla. ord. mf

Vc. -

Cb. -

$\text{♩} = 138$

178

Picc. *ff* *f*

Ob. *ff* *f*

Cl. *ff* *f*

Bsn. *ff* *f*

Hn. *ff* *f*

Tpt. *ff* *f*

Tbn. *ff* *f*

Perc. *ff* *f*

Vib. *ff* *f*

Pno. *ff* *f*

Vln. 1 *ff* *f*

Vln. 2 *ff* *f*

Vla. *ff* *f*

Vc. *ff* *f*

Cb. *ff* *f*

ord.

ord.

3

f

f

J
♩ = ♩ = 69

180

Picc. *ff* *fff* To Fl. Flute

Ob. *ff* *fff*

Cl. *ff* *fff*

Bsn. *ff* *fff*

Hn. *ff* *mf* *fff*

Tpt. *ff* *mf* *fff*

Tbn. *ff* *mf* *fff*

Perc. (snare) sticks *fff* (triangle) to Vib. motor on *p*

Vib. *p* Chimes *p*

Pno. *fff* *Ped. fff*

Vln. 1 *ff* *fff* *p* *f*

Vln. 2 *ff* *fff* *p* *f*

Vla. *ff* *fff*

Vc. *ff* *fff*

Cb. *ff* *fff*

185

Fl.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Vibraphone
fast → slow motor off

Vib.

Chim.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

To Perc.

mf
Ped.

p
Ped.

f
Ped.

f
Ped.

p
Ped.

mf
Ped.

f
Ped.

f
Ped.

s.t.

s.t.

191

Fl. *p*

Ob. *p*

Cl. *p* → *f*

Bsn.

Hn.

Tpt. *p* → *f* (mute on)

Tbn.

Vib. Percussion (bowed cymbal) *p* To Vib. Vibraphone *mf* *p* *f* motor on fast

Chim. *mf* *p* *mf* *mf* *f* To Vib. Vibraphone *mf* *p* *mf* *f* arco motor on mallet fast

Pno. *mf* *mp* *p*

Vln. 1 *p* *f* *p* *p* s.p.

Vln. 2 *p* *f* *p* *p* s.p.

Vla. *p*

Vc. (nat. harmonic) *p*

Cb.

198

Fl. *p*

Ob. *p*

Cl. *f*

Bsn.

Hn.

Tpt. *f*

Tbn.

Vib. *slow* To Perc. Percussion (bowed cymbal) *p* to Vib. motor off *f* *ped.* Vibraphone arco *p*

Vib. *slow* To Perc. Percussion (bowed cymbal) *p* to Vib. motor off *f* *ped.* Vibraphone arco *p*

Pno. *f* *p* *ped.* *f* *p*

Vln. 1 ord. *fp fp fp fp fp f* s.p. s.t. *p* ord.

Vln. 2 ord. *fp fp fp fp* s.p. s.t. *p* ord.

Vla. *f* s.p. *p* s.p.

Vc. *p*

Cb.

Detailed description of the musical score: The score is for measures 198-202. It includes parts for Flute, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone, Vibraphone (two staves), Piano, Violin I, Violin II, Viola, Violoncello, and Contrabass. The woodwinds and brass have sparse entries, with dynamic markings like *p* and *f*. The percussion section is highly detailed, showing transitions from bowed cymbal to vibraphone with motor on and off, and then to arco vibraphone. The piano part features a rhythmic pattern with dynamics *f*, *p*, and *ped.*. The string section (Violins I & II, Viola, Cello) has a melodic line starting in *ord.* (order) and moving to *s.p.* (sotto piano) or *s.t.* (sotto tenore) with dynamics *fp* and *f*.

206

Fl. *mf* \leq *f* *p* \leq *mf*

Ob. *mf* \leq *f* *p* \leq *mf*

Cl. *p* \leq *f* \leq *f*

Bsn. *p* muted

Hn. *p*

Tpt. *p* \leq *f* \leq *f*

Tbn.

Vib. mallet *mf* motor on fast \rightarrow slow arco *p* \leq *mp* motor off mallet *p*

Vib. mallet *mf* arco *p* \leq *mp* mallet *p*

Pno. *mf* *mf* *p*

Vln. 1 \triangleright s.p. *mf* pizz. *f* *mf*

Vln. 2 s.p. *mf* pizz. *f* *mf*

Vla. (s.p.) *f* s.t. \rightarrow ord. *p* \leq *mf* pizz. *f*

Vc. (s.p.) *f* s.t. \rightarrow ord. *p* \leq *mf* pizz. *f*

Cb.

212

Fl. *p* *f* To Picc.

Ob. *p* *f*

Cl. *f* *mf* *f*

Bsn. *mp* *mf* *f*

Hn. *mp* *mf* *f*

Tpt. *f*

Tbn. *mf* *f* mute on

Vib. *mp* *mf* *f* Ped. To Chim.

Vib. *mp* *mf* *f* Ped.

Pno. *mp* *mf* *f* *f* Ped. arco

Vln. 1 arco *p*

Vln. 2 arco *p*

Vla. arco *p*

Vc. arco *p*

Cb. *mf* pizz.

K $\text{♩} = 88$

Piccolo
2/8

Picc. ff p

Ob. p f p

Cl. p f p f

Bsn. p f

Hn. open ff mute off f

Tpt. ff mute off f

Tbn. ff f

Vib. p f

Chimes ff f

Pno. ff p f f p

K $\text{♩} = 88$

ord. \rightarrow s.p. \rightarrow ord. \rightarrow s.p. \rightarrow

Vln. 1 p f p f

Vln. 2 p f p f

Vla. p f p f

Vc. p f p f

Cb. p f p f

(sounds an octave lower)

224

Picc. *p* *f* *p* *p* *f*

Ob. *f* *p*

Cl. *p*

Bsn.

Hn. muted *f*

Tpt. mute on *f*

Tbn. mute on *f*

Vib. To Perc. *f* Percussion (bowed tam tam) *p* *mf* To Perc.

Chim. *f* *mf* To Perc.

Pno. *f* *p* *f*

Vln. 1 ord. *p* *f* *p* *f* ord.

Vln. 2 ord. *p* *f* *p* *f* *p* *f* ord.

Vla. *p* *f* *p* *f* ord.

Vc. ord. *p* *f* *p* *f* ord. (nat. harmonic) *p*

Cb. *f* *p* *f*

231 **L**

Picc. - - - - -

Ob. - - - - -

Cl. - - - - -

Bsn. - - - - -

Hn. *p* *ff* *ff* *ff*

Tpt. *p* *ff* *ff* *ff*

Tbn. *p* *ff* *ff* *ff*

Perc. *mf* *f* *ff* *ff* *p* *ff* *p*

Perc. *p* *ff* *p* *ff* *p* *ff*

Pno. *p* *ff* Ped. *p*

Vln. 1 *ff*

Vln. 2 *ff*

Vla. *ff*

Vc. *ff*

Cb. *ff*

ff

struck med. mallet

snare drum

snare on sticks

snare on sticks (snare drum)

(suspended cymbal)

Ped.

236

This page of a musical score covers measures 236 through 239. The instruments and their parts are as follows:

- Picc., Ob., Cl., Bsn.:** All four woodwinds are silent throughout these measures.
- Hn.:** Horn 1 plays a melodic line starting in measure 236 with a triplet of eighth notes, moving to a half note in measure 237, and ending with a quarter note in measure 238. Dynamics range from *p* to *ff*.
- Tpt., Tbn.:** Trumpet and Trombone parts are mostly silent, with some accompaniment in measure 237.
- Perc.:** Two percussion parts feature rhythmic patterns of triplets and sixteenth notes, alternating between *ff* and *p* dynamics.
- Pno.:** The piano accompaniment consists of a sustained chord in the right hand and a rhythmic accompaniment of triplets in the left hand, maintaining a dynamic of *f*.
- Vln. 1, Vln. 2, Vla., Vc., Cb.:** The string section is playing sustained chords in a grand staff format.

240

Picc. -
Ob. -
Cl. -
Bsn. -
Hn. -
Tpt. -
Tbn. -
Perc. *p* *fff*
Perc. *p* *fff* *p*
Pno. -
Vln. 1 *pizz.* *f*
Vln. 2 *pizz.* *f*
Vla. *f*
Vc. *pizz.* *f*
Cb. -

Detailed description of the musical score: The score is for measures 240-243. The woodwind section (Piccolo, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone) is mostly silent, indicated by a horizontal line. The Percussion section has two staves. The top staff shows a sequence of chords with dynamics *p* and *fff*. The bottom staff shows a rhythmic pattern with triplets and dynamics *p*, *fff*, and *p*. The Piano part is silent. The String section (Violin 1, Violin 2, Viola, Violoncello, Contrabass) is active. Violin 1 and 2 play a melodic line with triplets and dynamics *pizz.* *f*. Viola and Violoncello play a supporting line with dynamics *f*. Contrabass is silent.

244

Picc.

Ob.

Cl.

Bsn.

Hn. *open*

Tpt.

Tbn. *mute off*

Perc.

Perc.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb. *(ord.)* *s.p.*

247

Picc.

Ob.

Cl.

Bsn.

Hn.

Tpt.

Tbn.

Perc.

Perc.

Pno.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

tam tam beater
(large tam tam)

p

p

ord.