

**Michael Gandolfi**

## **Cosmic Garden Diptych**

**M51 Music (ASCAP)**

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## Instrumentation

Piccolo  
Flute 1-2 (3 each)  
Oboe 1-2  
English Horn  
Bassoon 1-2  
Contrabassoon  
Eb Clarinet  
Bb Clarinet 1-2-3 (2 or 3 each)  
Bb Bass Clarinet

Bb Soprano Saxophone  
Eb Alto Saxophone  
Bb Tenor Saxophone  
Eb Baritone Saxophone

Horn in F 1-2-3-4  
C Trumpet 1-2-3  
Tenor Trombone 1-2  
Bass Trombone  
Euphonium  
Tuba

Contrabass

Harp  
Piano

Timpani  
Percussion (4 Players):

Vibraphone, Xylophone, Glockenspiel, Tubular Chimes  
Crash Cymbals, Large Suspended Cymbal, Small Suspended Cymbal, Finger Cymbals  
Brake Drum, Tambourine, Triangle, Cowbell, Ratchet, Claves, Maracas (or Shakes)

## Performance Notes

Score is Transposed.

**Approximate concert duration:** 11 minutes

Movement I. *The Willow Twist* (4')..... p. 1-21  
Movement II. *Symmetry Break: Black Hole Terrace* (6'30")..... p. 22-62

## Program Notes:

*Cosmic Garden Diptych* is an arrangement of two movements from my eleven-movement orchestral composition titled *The Garden of Cosmic Speculation*. The title derives from an actual garden (with the same name), which is a 30-acre, land-art masterpiece in southern Scotland, designed by the American architect Charles Jencks and his wife Maggie Keswick. This garden is full of heady and playful references to cosmology, physics, mathematics and philosophy.

In early 2010, Phyllis Hoffman asked if I would write a fanfare-like work for concert band to celebrate the 10<sup>th</sup> anniversary of the Boston University Tanglewood Institute Youth Wind Ensemble. I elected to arrange two movements of my aforementioned orchestral work *The Garden of Cosmic Speculation: The Willowtwist* and *Symmetry Break Terrace/Black Hole Terrace*, due to their overall bright and up-tempo qualities.

*The Willowtwist* is a large steel-structure in the garden that is designed as a complex Möbius strip: a looped structure with one side and one boundary. I composed a piece with rhythmical and harmonic structures that loop or turn back on themselves as the piece progresses, creating a musical corollary to the design of a Möbius strip. The second movement takes its title from two structures in the garden: *Symmetry Break Terrace* and *Black Hole Terrace*. These two structures are in close proximity to each other and can be 'read' as a unit. *Symmetry Break Terrace* is a land-art representation of the warping of space that occurs around a black hole. *Black Hole Terrace* is self-explanatory with the caveat that in Jencks' realization, it is mostly displayed on a large disc comprised of wood, Astroturf and zinc plates. This other-worldly structure is placed under a grand Sycamore tree. To add to the surrealist contrast of nature and artifice, Jencks is fond of setting a table on this terrace and taking his dinner there! My composition traces the journey from *Symmetry Break Terrace*, through *Black Hole Terrace*, by establishing a musical design, subjecting it to a break of symmetry, by stretching it temporally while sounding it against its original shape, and progressing through the various stages of an imaginary journey into this mysterious, cosmic object.

-Michael Gandolfi

Transposed Score  
Movement Duration: 4 minutes

# Cosmic Garden Diptych

## I. The Willow Twist

(adapted from *The Garden of Cosmic Speculation*)

Michael Gandolfi (2010)

$\text{♩} = 64$ , An Exuberantly Whirling Dance!

Piccolo

Flute 1-2

Oboe 1-2

English Horn

Bassoon 1-2  
*f*

Contrabassoon

Clarinet in E $\flat$

B $\flat$  Clarinet 1  
*f* *(sempre simile)*

B $\flat$  Clarinet 2  
*f* *(sempre simile)*

B $\flat$  Clarinet 3  
*f* *(sempre simile)*

Bass Clarinet  
*f*

Soprano Saxophone

Alto Saxophone  
*f*

Tenor Saxophone  
*f*

Baritone Saxophone  
*f*

*sempre simile*

$\text{♩} = 64$ , An Exuberantly Whirling Dance!

Horn in F 1-3  
*mf*

Horn in F 2-4  
*mf*

C Trumpet 1, 2  
*f*

C Trumpet 3

Trombone 1-2

Bass Trombone

Euphonium

Tuba

*pizz.*

Contrabass  
*f*

Harp  
*f*

Piano  
*f*

$\text{♩} = 64$ , An Exuberantly Whirling Dance!

Timpani

Claves

Percussion 1  
*f*

Percussion 2

Percussion 3

Percussion 4  
(motor off)

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl/Vibr.

12

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.

1.

*f*

17

Picc.  
 Fl. 1-2  
 Ob. 1-2  
 E. Hn.  
 Bsn. 1-2  
 Cbsn.  
 Eb Cl.  
 Bb Cl. 1  
 Bb Cl. 2  
 Bb Cl. 3  
 B. Cl.  
 S. Sx.  
 A. Sx.  
 T. Sx.  
 B. Sx.  
 Hn. 1-3  
 Hn. 2-4  
 C Tpt. 1,2  
 C Tpt. 3  
 Tbn. 1-2  
 B. Tbn.  
 Euph.  
 Tba.  
 Cb.  
 Hp.  
 Pno.  
 Timp.  
 Claves  
 Tamb.  
 Trgle.  
 Marac.  
 Crash Cymb.  
 Xyl./Vibr.

Musical score for page 4, measure 17. The score includes parts for Piccolo, Flutes 1-2, Oboes 1-2, English Horn, Bassoons 1-2, Contrabassoon, Eb Clarinet, Bb Clarinets 1-3, Bb Clarinet, Saxophones (Soprano, Alto, Tenor, Baritone), Horns 1-3 and 2-4, Trumpets 1-2 and 3, Trombones 1-2, Baritone Trombone, Euphonium, Tuba, Cymbals, Harp, Piano, Timpani, Claves, Tambourine, Triangle, Maracas, and Crash Cymbal/Xylophone/Vibraphone.

22

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.

1.  
*f*

1.  
*f*

2.  
*f*

2.  
*f*

This page contains the musical score for the 28th measure of the piece. The score is arranged in a standard orchestral layout with multiple staves for different instruments. The instruments listed on the left include Piccolo, Flutes 1-2, Oboes 1-2, English Horn, Bassoons 1-2, Contrabassoon, Eb Clarinet, Bb Clarinet 1, Bb Clarinet 2, Bb Clarinet 3, Bb Clarinet, Saxophones (Soprano, Alto, Tenor, Baritone), Horns 1-3, Horns 2-4, Trumpets 1-2, Trumpet 3, Trombones 1-2, Baritone Trombone, Euphonium, Tuba, Cymbals, Harp, Piano, Timpani, Claves, Tambourine, Triangle, Maracas, and Crash Cymbal/Xylophone/Vibraphone. The score shows various musical notations such as rests, notes, dynamics (e.g., *f*), articulation (accents), and performance instructions (e.g., first and second endings). The key signature changes from one key to another across the measures, and the time signature is consistent throughout.

33

Picc. *f*

Fl. 1-2 *f* a2

Ob. 1-2 *f* a2

E. Hn. *f*

Bsn. 1-2 *f* a2

Cbsn. *f*

E♭ Cl. *f*

B♭ Cl. 1 *f*

B♭ Cl. 2 *f*

B♭ Cl. 3 *f*

B. Cl. *f*

S. Sx. *f*

A. Sx. *f*

T. Sx. *f*

B. Sx. *f*

Hn. 1-3 *f* a2

Hn. 2-4 *f* a2

C Tpt. 1,2 *f*

C Tpt. 3 *f*

Tbn. 1-2 *f*

B. Tbn. *f*

Euph. *f*

Tba. *f*

Cb. *f*

Hp. *f*

Pno. *f*

Timp.

Claves

Tamb.

Trgle. *f* Triangle

Marac. *f* Xylophone

Crash Cymb. *f*

Xyl./Vibr. *f*

38

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.



48

Picc. *ff*

Fl. 1-2 *ff*

Ob. 1-2 *ff*

E. Hn. *ff*

Bsn. 1-2 *f*

Cbsn. *f*

E♭ Cl. *ff*

B♭ Cl. 1 *ff*

B♭ Cl. 2 *ff*

B♭ Cl. 3 *ff*

B. Cl. *f*

S. Sx. *ff*

A. Sx. *ff*

T. Sx. *ff*

B. Sx. *ff*

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2 *ff*

C Tpt. 3 *ff*

Tbn. 1-2

B. Tbn. *ff*

Euph. *ff*

Tba. *ff*

Cb. *ff*

Hp.

Pno. *ff*

Timp.

Claves *ff*

Tamb. *ff* Tamborine

Trgle. *ff*

Marac. *ff*

Crash Cymb. Xyl/Vibr. *ff*



58

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.

Detailed description of the musical score: This page contains the musical score for measures 58-62 of 'Cosmic Garden Dyptych (I. The Willow Twist)'. The score is arranged in a standard orchestral format with multiple staves for each instrument. The woodwinds (Piccolo, Flutes, Oboes, Clarinets, Bassoons) and strings (Violins, Violas, Cellos, Double Basses) play melodic and harmonic lines. The brass section (Trumpets, Trombones, Horns, Tuba) provides harmonic support and dynamic contrast, with some instruments marked 'f' (forte). The percussion section includes Timpani, Claves, Tambourine, Triangle, Maracas, Crash Cymbal, Xylophone, and Vibraphone, contributing to the rhythmic texture. The piano part features a complex rhythmic pattern with many accents. The score is written in a key signature of one flat and a common time signature.

63

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.

Stand-up for solo 1.

*sf*

Triangle

*f*





78

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.

Xyl/Vibr.

*ff*

*ff*

Player one sits

scrape

crash

scrape

crash

scrape



89

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl./Vibr.

**Vibraphone**

**ff**

95

This page of the musical score, page 95, features a variety of instruments. The woodwind section includes Piccolo, Flutes 1-2, Oboes 1-2, English Horn, Bassoons 1-2, Contrabassoon, E♭ Clarinet, B♭ Clarinet 1, B♭ Clarinet 2, B♭ Clarinet 3, Bass Clarinet, Soprano Saxophone, Alto Saxophone, Tenor Saxophone, and Baritone Saxophone. The brass section consists of Horns 1-3, Horns 2-4, Trumpets 1-2, Trumpet 3, Trombones 1-2, Baritone Trombone, Euphonium, Tuba, and Contrabass. The keyboard section includes Harp and Piano. The percussion section includes Timpani, Claves, Tambourine, Triangle, Maracas, and Crash Cymbal/Xylorimba/Vibraphone. The score is written in a complex rhythmic style with many sixteenth and thirty-second notes, and includes various articulation marks such as accents and slurs.



109

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Tamb.

Trgle.

Marac.

Crash Cymb.  
Xyl/Vibr.

*lunga*

*lunga*

*lunga*

a 2. con sord.

*pp*

solo to end

*p*

*pp*

*pp*

# II. Symmetry Break: Black Hole Terrace

Michael Gandolfi (2010)

Transposed Score

Movement duration: 6' 30"

(adapted from *The Garden of Cosmic Speculation*)

$\bullet = 126$  *rit.*  $\bullet = 92$  The Distant Grasp of the Black Hole

5 8

The score is divided into two systems. The first system includes Piccolo, Flute 1-2, Oboe 1-2, English Horn, Bassoon 1-2, Contrabassoon, Clarinet in E $\flat$ , B $\flat$  Clarinet 1, B $\flat$  Clarinet 2, B $\flat$  Clarinet 3, Bass Clarinet, Soprano Saxophone, Alto Saxophone, Tenor Saxophone, and Baritone Saxophone. The second system includes Horn in F 1-3, Horn in F 2-4, C Trumpet 1,2, C Trumpet 3, Trombone 1-2, Bass Trombone, Euphonium, Tuba, Contrabass, Harp, Piano, Timpani, and Percussion 1, 2, and 3. The score features complex rhythmic patterns, dynamic markings such as *f*, *p*, and *rit.*, and specific performance instructions like *con sord.* and *senza sord.* for the brass section. Rehearsal marks 5 and 8 are indicated at the top of the score.

*rit.* **Tempo Primo** ♩ = 126

12

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

*rit.* **Tempo Primo** ♩ = 126 **Symmetry!**

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

*rit.* **Tempo Primo** ♩ = 126 **Symmetry!**

Timp.

Perc. 1

Perc. 2

Perc. 3

**Tambourine**

*mp*

*f*





22

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Perc. 2

Perc. 3

**Ratchet**

*f*



30

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Vibr.

Glock.

34

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

Es. Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Vibr.

Glock.

38

This page of the musical score, numbered 30, contains 28 staves of music. The instruments listed on the left are: Picc., Fl. 1-2, Ob. 1-2, E. Hn., Bsn. 1-2, Cbsn., Eb Cl., Bb Cl. 1, Bb Cl. 2, Bb Cl. 3, B. Cl., S. Sax., A. Sax., T. Sax., B. Sax., Hn. 1-3, Hn. 2-4, C Tpt. 1,2, C Tpt. 3, Tbn. 1-2, B. Tbn., Euph., Tba., Cb., Hp., Pno., Timp., Claves, Vibr., and Glock. The score features various musical notations including triplets, slurs, and dynamic markings such as *mf* and *f*. The key signature has one sharp (F#) and the time signature is 3/4. The page number '38' is written at the top left of the first staff.

41

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Vibr.

Glock.



49

51

This page of a musical score, numbered 49 and 51, features a variety of instruments. The woodwind section includes Piccolo, Flutes 1-2, Oboes 1-2, English Horn, Bassoons 1-2, Contrabassoon, E♭ Clarinet, B♭ Clarinet 1, B♭ Clarinet 2, B♭ Clarinet 3, and Bass Clarinet. The string section consists of Soprano, Alto, Tenor, and Bass Saxophones, Horns 1-3 and 2-4, Trumpets 1, 2, and 3, Trombones 1-2, Baritone Trombone, Euphonium, Tuba, and Contrabass. The brass section includes Horns 1-3 and 2-4, Trumpets 1, 2, and 3, Trombones 1-2, Baritone Trombone, Euphonium, Tuba, and Contrabass. The percussion section includes Harp, Piano, Timpani, Claves, Vibraphone, and Glockenspiel. The score includes dynamic markings such as *p* (piano) and *f* (forte), and articulation like slurs and accents. The Harp part includes specific chord voicings: B♭, C, D; Eb, E, G, A; G♭; B♯; and D♯.





63

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Vibr.

Xyl.

*mf*

69

67

Crossing the Event Horizon

Picc. *f*  
 Fl. 1-2 *f*  
 Ob. 1-2 *f*  
 E. Hn. *f*  
 Bsn. 1-2 *f*  
 Cbsn. *f*  
 Eb Cl. *p* *playfully, with humor*  
 B♭ Cl. 1 *p* *playfully, with humor*  
 B♭ Cl. 2 *f*  
 B♭ Cl. 3 *p* *playfully, with humor*  
 B. Cl. *p*  
 S. Sx. *p* *playfully, with humor*  
 A. Sx. *p*  
 T. Sx. *f*  
 B. Sx. *f*  
 Hn. 1-3 *p*  
 Hn. 2-4 *p*  
 C Tpt. 1,2 *p*  
 C Tpt. 3 *p*  
 Tbn. 1-2 *p*  
 B. Tbn. *mf*  
 Euph. *p*  
 Tba. *mf*  
 Cb. *p* *arco*  
 Hp. *f*  
 Pno. *f*  
 Timp. *f*  
 Claves *f*  
 Perc. 2 *f*  
 Xyl. *p* *playfully, with humor*



76

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Perc. 2

Perc. 3

Stepping Down to the Lower Platform  
(Closer to the Black Hole)

80 81 85

Picc. *f*

Fl. 1-2 *f*

Ob. 1-2 *f*

E. Hn. *f*

Bsn. 1-2 *f*

Cbsn. *f*

E♭ Cl. *f*

B♭ Cl. 1 *f*

B♭ Cl. 2 *f*

B♭ Cl. 3 *f*

B. Cl. *f*

S. Sx. *f*

A. Sx. *f*

T. Sx. *f*

B. Sx. *f*

Hn. 1-3 *f*

Hn. 2-4 *f*

C Tpt. 1, 2 *mp*

C Tpt. 3 *p*

Tbn. 1-2 *p*

B. Tbn. *p*

Euph. *f*

Tba. *mf*

Cb. *p*

Hp.

Pno. *f*

Timp. *p*

Claves *f*

Perc. 2 *p* Tambourine

Perc. 3 *f*

Stepping Down to the Lower Platform  
(Closer to the Black Hole)

Stepping Down to the Lower Platform  
(Closer to the Black Hole)

Stepping Down to the Lower Platform  
(Closer to the Black Hole)

86

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Claves

Perc. 2

Perc. 3

Tambourine

*f*

*ff*



94 97

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Tamb.

Perc. 3

100 *tr*

101

The Penultimate Gravitational Pull

104

Picc. *f*  
 Fl. 1-2 *ff*  
 Ob. 1-2 *ff*  
 E. Hn. *ff*  
 Bsn. 1-2 *ff*  
 Cbsn. *ff*  
 E♭ Cl. *ff*  
 B♭ Cl. 1 *ff*  
 B♭ Cl. 2 *ff*  
 B♭ Cl. 3 *ff*  
 B. Cl. *ff*  
 S. Sx.  
 A. Sx.  
 T. Sx.  
 B. Sx.  
 Hn. 1-3 *f*  
 Hn. 2-4 *f*  
 C Tpt. 1,2 *ff*  
 C Tpt. 3 *ff*  
 Tbn. 1-2 *ff*  
 B. Tbn. *ff*  
 Euph. *ff*  
 Tba. *ff*  
 Cb. *ff*  
 Hp.  
 Pno. *ff*  
 Timp. *ff*  
 Perc. 1 *ff* Small Suspended Cymbal  
 Tamb.  
 Perc. 3

This page contains the musical score for measures 100 through 104 of the piece 'Cosmic Garden Diptych (II. Symmetry Break: Black Hole Terrace)'. The score is for a large symphony orchestra and includes parts for Piccolo, Flutes, Oboes, English Horn, Bassoons, Contrabassoon, Clarinets (E-flat, B-flat, and Bass Clarinet), Saxophones (Soprano, Alto, Tenor, Bass), Horns, Trumpets (C and B-flat), Trombones (Tenor, Euphonium, Tuba, and Contrabass), Harp, Piano, Timpani, and Percussion (Small Suspended Cymbal, Tambourine, and other). The score is written in 2/4 time and features a variety of dynamics, including *f* (forte) and *ff* (fortissimo). The title 'The Penultimate Gravitational Pull' is repeated above the woodwind and brass sections. Measure numbers 100, 101, and 104 are clearly marked at the top of the page.

*rit.* 106  $\text{♩} = 64$  108 Face-to-Face with the Black Hole 111

Picc. *ff* *fp* *molto* *fp* *fp* *fp*

Fl. 1-2 *ff* *fp* *molto* *fp* *fp* *fp*

Ob. 1-2 *ff* *fp* *molto* *fp* *fp* *fp*

E. Hn. *ff* *fp* *molto* *f* *fp* *fp*

Bsn. 1-2 *ff* *fp* *molto* *fp* *fp* *fp*

Cbsn. *ff* *fp* *molto* *fp* *fp* *fp*

E♭ Cl. *ff* *fp* *molto* *fp* *fp* *fp*

B♭ Cl. 1 *ff* *fp* *molto* *fp* *fp* *fp*

B♭ Cl. 2 *ff* *fp* *molto* *fp* *fp* *fp*

B♭ Cl. 3 *ff* *fp* *molto* *fp* *fp* *fp*

B. Cl. *ff* *fp* *molto* *fp* *fp* *fp*

S. Sx. *ff* *fp* *molto* *fp* *fp* *fp*

A. Sx. *ff* *fp* *molto* *fp* *fp* *fp*

T. Sx. *ff* *fp* *molto* *fp* *fp* *fp*

B. Sx. *ff* *fp* *molto* *fp* *fp* *fp*

*rit.*  $\text{♩} = 64$  Face-to-Face with the Black Hole

Hn. 1-3 *f* *f* *f*

Hn. 2-4 *f* *f* *f*

C Tpt. 1-2 *ff* *fp* *molto* *f* *f* *f*

C Tpt. 3 *ff* *fp* *molto* *f* *f* *f*

Tbn. 1-2 *ff* *fp* *molto* *f* *f* *f*

B. Tbn. *ff* *fp* *molto* *f* *f* *f*

Euph. *ff* *fp* *molto* *f* *f* *f*

Tba. *ff* *fp* *molto* *f* *f* *f*

Cb. *ff* *fp* *molto* *f* *f* *f*

Hp.

Pno. *ff* *fp* *molto* *f* *f* *f*

*rit.*  $\text{♩} = 64$  Face-to-Face with the Black Hole

Timp. *ff* *fp* *molto* *f* *f* *f*

Perc. 1 *ff* *fp* *molto* *f* *f* *f*

Perc. 2 *ff* *fp* *molto* *f* *f* *f*

Perc. 3 *ff* *fp* *molto* *f* *f* *f*

Claves *f*

Crash Cymbal *f*

Tubular Chimes *f*

117

113  $\text{♩} = 92$

115

The Final Descent  
*accel.*

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

The Final Descent  
*accel.*

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

The Final Descent  
*accel.*

Pno.

Timp.

Claves

Perc. 2

Tub. Chimes

Brake Drum









136

Picc. *f*  
 Fl. 1-2 *f*  
 Ob. 1-2 *f*  
 E. Hn. *f*  
 Bsn. 1-2 *f*  
 Cbsn. *f*  
 E♭ Cl. *f*  
 B♭ Cl. 1 *f*  
 B♭ Cl. 2 *f*  
 B♭ Cl. 3 *f*  
 B. Cl. *f*  
 S. Sx. *f*  
 A. Sx. *f*  
 T. Sx. *f*  
 B. Sx. *f*  
 Hn. 1-3 *ff*  
 Hn. 2-4 *ff*  
 C Tpt. 1,2  
 C Tpt. 3  
 Tbn. 1-2  
 B. Tbn. *f*  
 Euph. *f*  
 Tba. *f*  
 Cb. *f*  
 Hp.  
 Pno.  
 Timp.  
 Perc. 1 *Claves*  
 Cowbell *Small Suspended Cymbal (on Dome) f*  
 Perc. 3 *Tambourine f*



150 154 158

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Perc. 2

Tamb.

(finger roll)

*p*

161 162 166 170

Picc. *p* *ff*

Fl. 1-2 *p* *ff*

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2 *senza sord.* *p* *ff* *p*

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

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno. *ff*

Timp. *p* *f* *p*

Perc. 1 *Xylophone* *f* *fff* *f*

Perc. 2 *Brake Drum* *p* *ff* *p*

Tamb.

171 174 178

Instrument list:  
Picc.  
Fl. 1-2  
Ob. 1-2  
E. Hn.  
Bsn. 1-2  
Cbsn.  
E♭ Cl.  
B♭ Cl. 1  
B♭ Cl. 2  
B♭ Cl. 3  
B. Cl.  
S. Sax.  
A. Sax.  
T. Sax.  
B. Sax.  
Hn. 1-3  
Hn. 2-4  
C Tpt. 1, 2  
C Tpt. 3  
Tbn. 1-2  
B. Tbn.  
Euph.  
Tba.  
Cb.  
Hp.  
Pno.  
Timp.  
Perc. 1  
Perc. 2  
Perc. 3

Measure numbers: 171, 174, 178

Dynamics: *p*, *ff*, *f*

181

182

186

190

This page of a musical score contains measures 181 through 190. The instruments listed on the left are: Picc., Fl. 1-2, Ob. 1-2, E. Hn., Bsn. 1-2, Cbsn., E♭ Cl., B♭ Cl. 1, B♭ Cl. 2, B♭ Cl. 3, B. Cl., S. Sax., A. Sax., T. Sax., B. Sax., Hn. 1-3, Hn. 2-4, C Tpt. 1, 2, C Tpt. 3, Tbn. 1-2, B. Tbn., Euph., Tba., Cb., Hp., Pno., Timp., Perc. 1, Perc. 2, and Perc. 3. The score features various musical notations including notes, rests, and dynamic markings such as *ff*, *f*, *p*, and *sfz*. Measure numbers 181, 182, 186, and 190 are indicated at the top of the page.

191 194 198

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sax.

A. Sax.

T. Sax.

B. Sax.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Perc. 2

Perc. 3

*p* *ff* *f* *ff* *p* *ff*

201 202 206

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1, 2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Perc. 2

Perc. 3

*ff*

*f*

*p*

*sf*

210 The Energy Jet

215

Beyond the Black Hole?

Woodwind section score including Piccolo, Flutes 1-2, Oboes 1-2, English Horn, Bassoons 1-2, Contrabassoon, E♭ Clarinet, B♭ Clarinets 1-3, and Bass Clarinet. The score shows various dynamics such as *p*, *mf*, and *f*, along with articulation marks like accents and slurs. The Piccolo part features a prominent *fff* dynamic.

Brass section score including Horns 1-3, Horns 2-4, Trumpets 1-2, Trumpet 3, Trombones 1-2, Baritone Trombone, Euphonium, and Tuba. The score includes dynamics like *p* and *mp*, and features a section labeled "The Energy Jet" with a *p* dynamic.

Percussion and Keyboard section score including Harp, Piano, Timpani, and three Percussion parts. The Harp part includes the instruction "with extreme precision, metronomical". The Percussion 1 part includes "with extreme precision, metronomical Claves" and a *p* dynamic. Percussion 2 includes a "Crash Cymbal" with a *p* dynamic. Percussion 3 includes a "Large Suspended Cymbal" with a *p* dynamic. The score also features a *fff* dynamic in the Piano part.

222

225

The score consists of three main parts: Percussion 1, Percussion 2, and Percussion 3. Percussion 1 is a snare drum part with a steady eighth-note pattern. Percussion 2 is a finger cymbal part with a melodic line. Percussion 3 is a tom-tom part with a steady eighth-note pattern. The Harp (Hp.) part is a complex melodic line with many accidentals. The Piano (Pno.) part is a simple accompaniment with a steady eighth-note pattern. The score is divided into measures 222 and 225. The Percussion 2 part has a dynamic marking of *p* and a performance instruction: "with extreme precision, metronomical Finger Cymbals".

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

Timp.

with extreme precision, metronomical  
Finger Cymbals  
*p*

231 232 235 238

Picc.

Fl. 1-2

Ob. 1-2

E. Hn.

Bsn. 1-2

Cbsn.

E♭ Cl.

B♭ Cl. 1

B♭ Cl. 2

B♭ Cl. 3

B. Cl.

S. Sx.

A. Sx.

T. Sx.

B. Sx.

Hn. 1-3

Hn. 2-4

C Tpt. 1,2

C Tpt. 3

Tbn. 1-2

B. Tbn.

Euph.

Tba.

Cb.

Hp.

Pno.

Timp.

Perc. 1

Finger Cymb.

Perc. 3

Glock.

*p*

240

243

245

Senza Ritard!

This page contains a musical score for a variety of instruments. The instruments listed on the left are: Picc., Fl. 1-2, Ob. 1-2, E. Hn., Bsn. 1-2, Cbsn., E♭ Cl., B♭ Cl. 1, B♭ Cl. 2, B♭ Cl. 3, B. Cl., S. Sx., A. Sx., T. Sx., B. Sx., Hn. 1-3, Hn. 2-4, C Tpt. 1,2, C Tpt. 3, Tbn. 1-2, B. Tbn., Euph., Tba., Cb., Hp., Pno., Timp., Perc. 1, Finger Cymb., and Glock. The score is organized into systems. The first system (measures 240-245) includes Picc., Fl. 1-2, Ob. 1-2, E. Hn., Bsn. 1-2, Cbsn., E♭ Cl., B♭ Cl. 1, B♭ Cl. 2, B♭ Cl. 3, B. Cl., S. Sx., A. Sx., T. Sx., and B. Sx. The second system (measures 246-251) includes Hn. 1-3, Hn. 2-4, C Tpt. 1,2, C Tpt. 3, Tbn. 1-2, B. Tbn., Euph., Tba., and Cb. The third system (measures 252-257) includes Hp., Pno., Timp., Perc. 1, Finger Cymb., and Glock. The instruction "Senza Ritard!" appears at the end of the first and second systems. The measures are marked with measure numbers 240, 243, and 245. The score is mostly blank, with some notes and rests visible in the Harp, Percussion 1, and Glockenspiel parts.