Michael Gandolfi

Imaginary Numbers

This work was commissioned by:

Paul and Linnea Bert

In honor of their longtime friendship with Dede and Tony Spano and Robert Spano, Music Director of the Atlanta Symphony Orchestra.

M51 Music (ASCAP)

michaelgandolfi.com

Instrumentation

2 Flutes
1 Oboe
1 Bb Clarinet
1 Bassoon

2 French Horns in F
1 C Trumpet
1 Tenor Trombones

Harp

Timpani

2 Percussionists
Vibraphone, Glockenspiel, Tubular Chimes
Snare Drum, Bass Drum, Bongos
Large Gong, Medium Suspended Cymbal, Ride Cymbal, Crash Cymbals, Small Splash Cymbal
Wood Blocks, Tambourine, Triangle, Mark Tree, Vibraslap, Ratchet

Oboe solo
Bb Clarinet Solo
French Horn in F
Bassoon

Strings

Performance Notes

Score is transposed.

Accidentals remain in effect for the duration of the measure, only at the octave in which they occur. They are sometimes rewritten within a measure for clarity.

Approximate duration: 25 minutes

Program Listing

Imaginary Numbers (2015) Michael Gandolfi (b. 1956)

I. Sky and Water
II. Duetti Misteriosi
III. Hymn of the Five Suns
IV. Mandelbrot's Rondo

Program Notes

Paul and Linnea Bert, of the Memphis Symphony, have been strong supporters of my work, with which they became acquainted through the Atlanta Symphony Orchestra performances of my music over the years. As a consequence of this, Paul and Linnea have scheduled and commissioned several works of mine, and have overseen the premieres and performances of these works by the Memphis Symphony.

What began as a professional relationship quickly developed into a wonderful friendship, which led to the couple's most recent request that I compose a concerto for four soloists and orchestra. The choice of the soloists' instrumentation (oboe, clarinet, French horn and bassoon) was Paul and Linnea's, but it is anything but arbitrary. Paul and Linnea are longstanding friends of Robert Spano and his parents, Tony and Dede Spano. Paul asked that this piece acknowledge their friendship. Early on in their lives, the two couples played three of the four instruments (Tony - clarinet, Dede - oboe, Linnea - bassoon, Paul - oboe). All four love the French horn. Linnea and Dede literally grew up together, playing in band and orchestra from their childhoods.

It was a pleasure for me to accept this commission, and to dedicate my work to these wonderful people as well as to the Atlanta Symphony Orchestra. It is a work that celebrates a loving friendship and a shared passion for music.

In preparing the piece, I studied Haydn's *Sinfonia Concertante*, a glorious concerto for four soloists (oboe, bassoon, violin and 'cello). My first thought was to use that as a model. However, when I started composing, I quickly realized that I was diverging from this initial intent. I did choose an orchestra that is comparable in size to Haydn's, but I add a second flute (Haydn uses one), trumpet, trombone, harp, and percussion; and I use one orchestral oboe and one orchestral bassoon, as opposed to Haydn's choice to use two of each. In summary, the weight of each orchestral complement is somewhat similar, albeit my instrumentation is a bit heftier and affords more color, without delving into the extravagances of a Romantic-era or modern-era full-orchestra, which I felt was unsuitable for the more intimate result that I was seeking in this work.

Imaginary Numbers is cast in four movements, totaling about twenty-five minutes in length. Its title is a play on words. 'Imaginary number' is a term coined by Descartes to describe a mathematical concept that today is known as a 'complex number.' 'Number' might also refer to a dance, as in a dance 'number.' I play with both meanings in the piece.

The first movement, *Sky and Water*, derives from an M.C. Escher lithograph. *Sky and Water I*., the title of Escher's work, depicts geese descending from the sky that smoothly morph into fish as they enter the water. I composed a rhythmical pattern that has two interpretations (one pulsates, the other 'swings') that morph from one to the other (and back) in the course of the movement; a musical corollary to Escher's visual work.

The second movement, *Duetti Misteriosi*, is a pas-de-deux (duet dance), which casts playful music alongside mysterious music. Its elaborate form expresses a carefully circumscribed symmetry that is wound around a raging, middle section.

The third movement, *Hymn of the Five Suns*, is a chorale with episodes that feature the soloists' individual voices, all of which I hear as a slow dance. 'Five Suns' is a term found in creation myths. The Aztecs and Nahua peoples refer to the 'Five Suns' as five cycles of creation and destruction, four of which they claim have already occurred. The Hymn-like quality of the opening chorale led me to this title.

The fourth movement, *Mandelbrot's Rondo*, is a fast-paced romp that affords the soloists and orchestra the opportunity to display their technical wares before closing the piece. Benoit B. Mandelbrot was a mathematician, best known for his formulas and theories in the field of fractal geometry. One of these his formulas known as the Mandelbrot Set, creates recursive or self-repeating spirals of remarkable beauty and complexity. To express this musically, I created a recursive form that turns back on itself in myriad ways.

I am indebted to Paul, Linnea, Tony and Dede for their longstanding support of my work and for their warm and enduring friendship. I am also indebted to the fine soloists of the Atlanta Symphony Orchestra. I am blessed to have such extraordinary artists presenting my work. Last, but certainly not least, I am indebted to Robert Spano and the Atlanta Symphony Orchestra for their years of unswerving support of my music; but more importantly, for all that they do to ensure the highest level of artistry that has been the hallmark of their existence, and has defined their position at the top of the ranks of the greatest musical institutions of our time.

-Michael Gandolfi

Edited April 18, 2015

to Dede, Tony and Robert Spano; and Paul and Linnea Bert

Imaginary Numbers

Transposed Score

Michael Gandolfi (2015)

I. Sky and Water

Presto ♩ = 176

(2+3) (2+2+3) (2+2+2+3) 5

Flute 1
Flute 2
Oboe
Clarinet in B♭
Bassoon
Horn in F 1
Horn in F 2
Trumpet in C
Trombone
Harp
Timpani
Percussion
Crash Cymbals
Oboe Solo
Clarinet in B♭ Solo
Horn in F Solo
Bassoon Solo
Violin 1
Violin 2
Viola
Violoncello
Contrabass

L.V. sempre

III. II.

Crash Cymbals

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9

14

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Perc.
Cr. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

ff
f
IV.

16

20

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

26

23

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

30

35

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Tubular Chimes

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

37

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

44

42

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

47

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tub. Ch.
Cr. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

52

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tub. Ch.
Cr. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

57

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

64

62

(♩=♩)

(in 6)

Fl. 1

Fl. 2

Perc.

Glockenspiel

Ob.

B♭ Cl.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

70

67

(♪=♪)

(2+3)

(2+2+3)

(2+2+2+2+3)

73

Glk.

Hn.

molto

74

76

79

B♭ Cl.

ppp

Vln. 1

arco

Vln. 2

arco

p

Vla.

Vc.

p

83

85

88

Ob.

mp

cresc.

f

B♭ Cl.

mp

cresc.

f

Hn.

mp

cresc.

f

Bsn.

mp

cresc.

f

Vln. 1

Vln. 2

Vc.

92

100

Triangle

Trgle.

p

mp

mf

Ob.

f

mf

p

mp

mf

B♭ Cl.

f

mf

p

mp

mf

Hn.

f

p

mp

mf

f

Bsn.

f

p

mp

mf

f

Vln. 1

p

Vln. 2

p

Vla.

p

Vc.

p

Cb.

p

103

106

Ride Cymbal

112

R. Cym.

Trgle.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

115

(in 4) **(in 3)**

114

Jazz swing-style
(tenuto marks indicate stress/emphasis)

(in 4) **(in 3)**

120

123

R. Cym.

Ob.

B♭ Cl.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

126

129

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

mf

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

132

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

mf

mf

mf

mf

138

142

Fl. 1

Fl. 2

B♭ Cl.

Hn. 1

Tbn.

Hp.

R. Cym.

Vib.

Ob.

B♭ Cl.

Hn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

p

p

p

p

mf

soft mallets

Vibraphone(motor off)

mf (pedal to slurs)

mf

mp

p

p

p

p

p

144

146

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Vib.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

150

154

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Vib.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

mf

pizz.

156

158

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Vib.

Ob.

B♭ Cl.

Hn.

Bsn.

mf

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

162

165

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

arco

168

171

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

R. Cym.

Ride Cymbal

Crash Cymbals

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

pizz.

Cb.

174

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

R. Cym.

Perc.

Ob.

B♭ Cl.

Hn.

f

Bsn.

f

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

177

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

180

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

184

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

188

R. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

191

194

(2+3) (2+2+3) (2+2+2+3)

(poco accent sempre)

R. Cym.

Trgle.

Triangle

f

(2+3) (2+2+3) (2+2+2+3)

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

197

200

203

R. Cym.

Trgl.

p *mp* *mf* *f* *mf* *p*

Ob.

B♭ Cl.

Hn.

Bsn.

p *cresc.*

mp *cresc.*

mf *cresc.*

f

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

ppp

p

arco

204

206

R. Cym.

Trgl.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

211

212

215

217

218

221

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

L.V. sempre

Timp.

II.

Perc.

Cr. Cym.

Crash Cymbals

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

225

230

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

IV.

Perc.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

232

236

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

239

242

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

246

251

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Cr. Cym.

Tubular Chimes

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

253 254 257

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tub. Ch.
Cr. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

258

260

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

263

266

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

268 269 272

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tub. Ch.
Cr. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

273

275

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Cr. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

280

278

(♩=♩)

(in 6)

Fl. 1

Fl. 2

Perc.

Glock.

L.V.

(♩=♩)

(in 6)

Ob.

B♭ Cl.

Bsn.

pizz.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

286

283

(♪=♩)

(2+3)

(2+2+3)

(2+2+2+3)

Fl. 1

Fl. 2

Hp.

Glk.

L.V.

(♪=♩)

(2+3)

(2+2+3)

(2+2+2+3)

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

289

292

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Tub. Ch.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

arco

295

(in 4)

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tub. Ch.
B. Dr.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mf *cresc.*

f *cresc.*

ff

Bass Drum

II. Duetti Misteriosi

Allegro ♩= 100

6

11

Fl. 1

Fl. 2

Timp.

Perc.

Wood Blocks

Med. Susp. Cymbal

Triangle

Crash Cymbals

Allegro ♩= 100

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

pizz.

Cb.

13

16

21

Hp.

Timp.

Perc.

Bongos

Triangle

Vibraslap

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

pizz.

Vc.

Cb.

24 26 31

Hp.
Timp.
Perc. — Wood Blocks — mf
Perc. — Tambourine (Finger Roll) — mf — Crash Cymbals — mf
Ob.
B♭ Cl.
Hn.
Bsn. — mf
Vln. 1
Vln. 2
Vla. — mf
Vc.
Cb.

36 42 47

Fl. 1 — p — p
B♭ Cl. — p — p
Hn. 1 — con sord. — p
Hn. 2 — con sord. — p
C Tpt. — con sord. — p
Tbn. — con sord. — p
Hp. — p — p
Timp.
Wd. Blk.
Perc. — Triangle — mf — Mark Tree — L.V. (sempre) — mp
Ob. — p — p
B♭ Cl. — p — p
Hn. — p — p
Bsn. — p — f — p
Vc.
Cb.

49

53

57

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M.T.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

62

64

68

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

mf

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

f

Crash Cymbals

Cr. Cym.

Perc.

Ob.

p

mf

f

B♭ Cl.

Hn.

pp

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

(pizz.)

Cb.

73

77

Fl. 1

Fl. 2

mf

Ob.

B♭ Cl.

Bsn.

mf

senza sord.

Hn. 1

mf

Hn. 2

senza sord.

mf

C Tpt.

Tbn.

Hp.

Timp.

Cr. Cym.

Crash Cymbals

mf

Perc.

Bass Drum

mf

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

tr

mf

Vc.

arco

pizz.

mf

arco

Cb.

arco

mf

83

88

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Cr. Cym.

Trgle.

Triangle

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

arco

93

96

99

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

senza sord.

Hp.

Timp.

Perc.

Trgle.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

102

109

Fl. 1

Fl. 2

Tbn.

Hp.

Timp.

p

Crash Cymbals

Cr. Cym.

mf

Bass Drum

B. Dr.

mf

Ob.

B♭ Cl.

mf

Hn.

Bsn.

Vln. 1

p

Vln. 2

p

Vla.

p

Vc.

p

arco

Cb.

p

113

116

Ob.

mf

B♭ Cl.

Hn.

Bsn.

122

125

130

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vc.

Cb.

mf

mp

p

131

134

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vc.

Cb.

mf

pizz.

mp

139

143

148

B♭ Cl.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

mf

arco

149

154

158

Fl. 1

Fl. 2

B♭ Cl.

Hp.

mf

p

B. Dr.

Bass Drum

p

Ob.

B♭ Cl.

Hn.

Bsn.

p

Vln. 1

Vln. 2

Vla.

Vc.

pizz.

Cb.

p

159

162

166

Fl. 1

Fl. 2

B♭ Cl.

Hp.

cresc.

B. Dr.

cresc.

Ob.

B♭ Cl.

Hn.

Bsn.

p *cresc.*

p *cresc.*

p

mp

mp

mf

mf *cresc.*

Vc.

Cb.

p *cresc.*

cresc.

169

172

176

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

senza sord.

Tbn.

Hp.

Timp.

Perc.

B. Dr.

Ob.

B♭ Cl.

Hn.

cresc.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

arco

pizz.

Cb.

pizz.

178 180 184

Hn. 1
Hn. 2
C Tpt.
Tbn.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

ff *mf* *ff* *mf*

186 188

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

f *cresc.* *ff* *mf* *ff*

192

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

G♮

Timp.

Crash Cymbals

Cr. Cym.

Bass Drum

B.D.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

arco

Vc.

arco

Cb.

197

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Cr. Cym.

B.D.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

202

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Cr. Cym.

B.D.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

dim.

pp

f

mp

207

211

215

G.P.

Fl. 1

Fl. 2

Ob.

pp

B♭ Cl.

pp

Bsn.

Hn. 1

Hn. 2

pp

C Tpt.

Tbn.

pp

Hp.

pp

mf

Timp.

Perc.

Perc.

G.P.

Ob.

pp

mp

B♭ Cl.

pp

mp

Hn.

pp

Bsn.

pp

Vln. 1

ppp

mp

Vln. 2

ppp

mp

Vla.

ppp

mp

Vc.

ppp

Cb.

ppp

218

220

228

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Perc.

Triangle

Crash Cymbals

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

pizz.

arco

Vc.

pizz.

Cb.

mp

mf

230

233

239

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

p

p

Hn. 1

Hn. 2

C Tpt.

Tbn.

con sord.

p

con sord.

p

con sord.

p

con sord.

p

Hp.

p

Timp.

Perc.

Wood Blocks

mf

3

3

Perc.

Triangle

mf

Mark Tree

L.V. (sempre)

mp

Ob.

B♭ Cl.

Hn.

Bsn.

mf

mf

mf

p

p

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

mf

242 244 249 254

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Perc.
M.T.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

255

263

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

mf

pp

III. Hymn of the Five Suns

Larghetto ♩ = 60

9

Ob.
B♭ Cl.
Hn.
Bsn.
p

con sord.
Vln. 1
p
con sord.
Vln. 2
p
con sord.
Vla.
p
Vc.
mp espress.

13 con sord.
17
22
Hn. 1
pp
con sord.
Hn. 2
pp
(con sord.)
C Tpt.
pp
(con sord.)
Tbn.
pp
Hp.
mp
Gng.
Large Gong
mp
B. Dr.
Bass Drum
mp
Ob.
p
B♭ Cl.
p
Hn.
p
Bsn.
p
Vln. 1
div. a 3
(top note only is harmonic, others ord.)
pp
Vln. 2
div. a 3
pp
Vla.
div. a 3
pp
Vc.
con sord.
div. a 3
pp
Cb.
con sord.
div. a 3
pp

24

27

31

Hp.

Timp.

p

Gng.

B. Dr.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

35

39

43

Fl. 1

Fl. 2

B♭ Cl.

ppp

pp

(con sord.)

Hn. 1

Hp.

Timp.

Ob.

B♭ Cl.

Hn.

Bsn.

pp

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p

47

51

55

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

58

62

68

Gng.

B. Dr.

poco, sempre

div. a 3

(top note only is harmonic, others ord.)

71 76 80

Timp.
Gng.
B. Dr.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

pp
ppp senza cresc.

82 84 88

Fl. 1
Fl. 2
Hp.
Timp.
Gng.
B. Dr.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

p
pp
ppp
rit.

IV. Mandelbrot's Rondo

Presto ♩. = 160

B♭ Cl.

Bsn.

Presto ♩. = 160

Ob.

B♭ Cl.

Hn.

Bsn.

(senza trill)

senza sord.

Vln. 1

senza sord.

Vln. 2

senza sord.

Vla.

senza sord.

Vc.

senza sord.

pizz.

Cb.

6

B♭ Cl.

Bsn.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

pizz.

Vln. 2

pizz.

Vla.

pizz.

arco

Vc.

pizz.

arco

Cb.

11

Fl. 1
ff

Fl. 2
ff

Ob.
f

B♭ Cl.
f

Bsn.
f

Hn. 1

Hn. 2
Senza sord.
mf

C Tpt.

Tbn.
Senza sord.
mf

Hp.
ff

Timp.

Perc.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1
arco
pizz.
ff
arco
f

Vln. 2
arco
pizz.
ff
arco
f

Vla.

Vc.
(pizz.)

Cb.

16

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.
Bsn.
Tbn.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

f *ff* *mf*

Senza sord.

25

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

Snare Drum

sempre simile

arco

p *cresc.* *mp* *mf* *tr*

30

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mf *cresc.*
f *cresc.*

35

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

ff
f
Triangle

40

41

B♭ Cl.

Bsn.

Timp.

Perc.

Tambourine

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

pizz.

Cb.

45

B♭ Cl.

Bsn.

Tbn.

Hp.

Timp.

Perc.

Crash Cymbals

Vibraslap

Perc.

Triangle (mounted)

Small Splash Cymbal

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

pizz.

pizz.

Vc.

arco

Cb.

50

53

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M. Sus. Cym.

Med. Susp. Cymbal

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

arco

55

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M. Sus. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

f

mf

p

arco

60

Fl. 1

ff

Fl. 2

ff

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

f

Hp.

f

Timp.

Perc.

M. Sus. Cym.

p

f

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

64

65

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

S. D.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p *cresc.*

mp

Snare Drum

sempre simile

arco

69

73

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mp *cresc.* *mf* *cresc.* *f* *cresc.*

74

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

ff

f

Crash Cymbals

79

81

Fl. 1

Fl. 2

B♭ Cl.

Hn. 1

C Tpt.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

pp

pp

pp

con sord.

pp

pp

pp

84

87

Fl. 1

Fl. 2

B♭ Cl.

Hn. 1

C Tpt.

Hp.

Ob.

B♭ Cl.

Hn.

Bsn.

mp

mp

mp

pp

pp

pp

mp

mp

mp

90

Fl. 1
Fl. 2
B♭ Cl.
Hn. 1
C Tpt.
Hp.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.

pp mp pp pp mp pp pp

96

Fl. 1
Fl. 2
B♭ Cl.
Hn. 1
C Tpt.
Hp.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.

mp mp mp mp p f p p f p

101

103

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

S. D.

Snare Drum

mp

mf

f cresc.

Perc.

Ob.

pp mp p

B♭ Cl.

pp mp p

Hn.

pp mp p f p

Bsn.

p f p p f p p

Vln. 1

pp p mp mf f cresc.

Vln. 2

pp p f cresc.

Vla.

pp p mp mf f cresc.

Vc.

pp p mp mf f cresc.

Cb.

pp p mp mf f cresc.

106

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

senza sord.

111

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

Crash Cymbals

117

119

B♭ Cl.

Bsn.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

122

B♭ Cl.

Bsn.

Timp.

Perc.

Crash Cymbals

Vibraslap

Perc.

Tambourine

Triangle (mounted)

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

127

131

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

Perc.

Small Splash Cymbal

Med. Susp. Cymbal

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

arco

132

Fl. 1

Fl. 2

Ob.

f

B♭ Cl.

Bsn.

Hn. 1

mf

Hn. 2

C Tpt.

mf

Tbn.

f

Hp.

Timp.

Perc.

M. Sus. Cym.

p

f

Ob.

B♭ Cl.

Hn.

Bsn.

arco

Vln. 1

f

arco

Vln. 2

f

Vla.

Vc.

Cb.

137

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M. Sus. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

141

143

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

S. D.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

p *cresc.*

f

mp

sempre simile

Snare Drum

arco

146

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mp *cresc.*

mf

151

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mf cresc. ff

f cresc. ff

Crash Cymbals

157

159

Fl. 1

Fl. 2

B♭ Cl.

Hn. 1

C Tpt.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

pp

con sord.

162

165

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Hn.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Ob.

B♭ Cl.

Hn.

Bsn.

pp

mp

p

mf

168

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Hn. 1
Hn. 2
C Tpt.
Ob.
B♭ Cl.
Hn.
Bsn.

174

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Hn. 1
Hn. 2
C Tpt.
Ob.
B♭ Cl.
Hn.
Bsn.

179

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

S. D.

Snare Drum

mp *mf* *f* *cresc.*

Perc.

Ob.

pp *mp* *p*

B♭ Cl.

pp *mp* *p*

Hn.

pp *mp* *p* *f* *p* *p*

Bsn.

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

Vln. 1

pp *p* *mp* *mf* *f* *cresc.*

Vln. 2

pp *p* *f* *cresc.*

Vla.

pp *p* *mp* *mf* *f* *cresc.*

Vc.

pp *p* *mp* *mf* *f* *cresc.*

Cb.

pp *p* *mp* *mf* *f* *cresc.*

184

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

senza sord.

Tbn.

Hp.

Timp.

S. D.

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

189

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
S. D.
Perc.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

Crash Cymbals

195

197

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

mf *mp* *p*

mf *mp* *p*

ff

ff

200

205

pp *p* *mp* *mf*

pp *p* *mp* *mf*

206

f

f

211

B♭ Cl.

Bsn.

Timp.

Perc.

Crash Cymbals

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

pizz.

Cb.

216

B♭ Cl.

Bsn.

Tbn.

Hp.

Timp.

Small Splash Cymbal

Perc.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

pizz.

arco

221

223

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M. Sus. Cym.

Med. Susp. Cymbal

Ratchet

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

arco

pizz.

226

Fl. 1

Fl. 2

Ob.

B♭ Cl.

Bsn.

Hn. 1

Hn. 2

C Tpt.

Tbn.

Hp.

Timp.

Perc.

M. Sus. Cym.

Ob.

B♭ Cl.

Hn.

Bsn.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

f *ff* *mf* *p*

Triangle

Vibraslap

231

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Perc.
M. Sus. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

mf ff mf ff mf f mf

Triangle

Tambourine

f f p

mf ff mf ff

235

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Tamb.
M. Sus. Cym.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

f

239 241 245

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Timp.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

(pizz.)

246 250

Bsn.
Ob.
B♭ Cl.
Hn.
Bsn.
Cb.

253

Fl. 1
Fl. 2
Ob.
B♭ Cl.
Bsn.
Hn. 1
Hn. 2
C Tpt.
Tbn.
Hp.
Timp.
Cr. Cym.
B. Dr.
Ob.
B♭ Cl.
Hn.
Bsn.
Vln. 1
Vln. 2
Vla.
Vc.
Cb.

Crash Cymbals
Bass Drum
arco