

# Hydrogen(2)Oxygen: String Quartet performance notes

## **Movement I- Hydrogen (GAS):**

This movement relies heavily on the use of four tempo curves, which have been rendered as click tracks with built in cues. Each player follows one of these four click tracks (CT) throughout the duration of the piece in the following groupings:

Click Track 1- Cello, Baritone 1, Alto-, Tenor-

Click Track 2 (modulatory<sup>1</sup>)- Viola, Baritone 2, Soprano+, Pencon 1

Click Track 3- Violin 2, Baritone 3, Soprano-, Tenor+

Click Track 4- Violin 1, Baritone 4, Alto+, Pencon 3

During rehearsal mark (RM) 1 of the piece, the four CT's are synchronized to a 60 BMP pulse (defined at that point as the 1/8<sup>th</sup> note). At RM 2, CT's 1 and 2 follow one tempo curve while CT's 3 and 4 follow another. At the start of RM 3, all four CT's are divergent for the remainder of the piece, although they occasionally elide for brief moments. Similarly, from RM 3 onwards, each part is written in quarter notes and each player is to synchronize their playing to exactly follow the pulse of their CT.

Below are some notes about other performance elements of this movement:

**Click Tracks-** The CT's have several built in cues based on the tone of the click during different events throughout the piece. The click sounds that are used are as follows:

Mid range wood-block: Signifies that the click is steady, not accelerating or decelerating.

Higher pitched wood-block: Signifies that the click is accelerating.

Lower pitched wood-block: Signifies that the click is decelerating.

Bell: Anticipates the end of a section; eight bell tones are given to signify the end of an RM (only four given at the end of RM 1). For the string players, from RM 3 until the end the bell cue always comes either during the last or the penultimate repetition of the RM cell. However, since the bell tolls eight times, the start of the bell (and the end) will not necessarily coincide with the start or end of the cycle that you are playing, since each cycle has a prime number duration.

Ringing Sound: This only occurs in CT 2, and signifies an instant jump from one tempo to another, rather than a gradual mutation.

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<sup>1</sup> CT 2 is the only track that has tempo jumps after RM 3, rather than gradual mutations. These occur sometimes in the middle of a pattern.

**Bowings-** Bowings should be as legato as possible throughout the piece, except during RM 2 in which the beginning of each note should be slightly accented with a faster bow pull (like a martelé, but without the bite and with sul tasto, flautando quality).

The first half of RM 1 should be an exploration of the overtone series of each note; bowing should always be sul pont. but the player can move freely around the bridge to extract different overtones for different extended moments, ad lib. During the second half of RM 1, each player should shift back and forth between sul pont. and sul tasto and, if possible, bow in a circular motion. The arrival of each new note aught to come at the exact time with respect to the CT, but should not be accented, and can in fact occur without a change in bow if convenient. The main idea is that the bowing itself is the focus of the texture, and the change in note adds a new color to a continuous bow tone. This “circular bowing” can continue into RM 2, ad lib, as long as the overall sound quality is of a flautando bowing.

From RM 3 until the end, the player should execute their patterns as legato as possible (perhaps with a détaché, baroque style bowing) and attempt to create an “overtone cloud” between the four players. Each pattern is designed so that the player does not have to move their left hand (if ever this is not possible, please advise me and we can adjust the notes in the pattern to achieve this). Similarly, the quartet is free to decide as to how to color each cell from RM 3 until the end (sul tasto, sul pont., etc...), as long as the net affect is a legato “overtone cloud.”

**Pitch Material-** This movement uses only open strings and natural harmonics. Regardless of that, the string number and harmonic symbol is given at each instance.

**Harmonic Notation-** For all natural harmonics ranging from the 7<sup>th</sup> and higher, the number of the harmonic is written next to the notehead like an accidental (this is instead of using JI accidentals like the Helmholtz-Ellis).

**Whole Notes-** Throughout the piece, if ever there is only one whole note written in a bar and nothing else, the whole note is given the total duration of the bar (no more, no less) regardless of the meter.

### **Movement 2- Hydrogen (ICE):**

This piece moves between material that is metered with specific BPM rates, and material that is given bracketed durations that are to be approximated by the players. These sections should be coordinated through the Violin 1 and the Alto+ players of the two ensembles, so that the full group stays oriented without eliciting an outside conductor. Therefore, all of the string parts have the Alto+ part written in their parts as a cue staff, and all of the percussion players have the Violin 1 in their parts.

**Barlines**- There are three different types of barlines used in the piece; normal, dashed, and double. Normal barlines represent conventionally metered material; dashed barlines represent time divisions during material that is not strictly metric (for example, even though RM 3 is in common time,  $\frac{1}{4} = 50$ , dashed barlines are given so that the players know that their phrases are to be played loosely, whereas RM 7 is to be played in strict time); double barlines represent division between different sections, usually moving from metered to non-metered material.

### **Markings-**

----- : The dashed marking is used to connect figures through the score and parts, and represents a direct continuation between two figures without any breach in time. This is used to compensate for the fact that the spacing in the score or part might otherwise make it seem that the two adjacent figures are separated in time, when they are not.

\_\_\_\_\_ : The straight line is used both in harmonic *glissandi* and *portamenti*. It is meant as a guide, and the noteheads that connect these lines are not to be accented, but rather represent reference points throughout a figure; in other words, figures containing these lines should always be played with continuous gliding motion and should not longer on any given pitch.

**Bowing**- The whole piece is to be played *senza vibrato*. Particularly bowing styles are given at the beginning of certain RM's and are to be used throughout that particular RM, except in brief moments when another bowing is written in (for example, *jete* on beat 4 of the first measure of RM 10).

**Quartet Coordination**- There are several moments in the piece where the four parts of the quartet are meant to be played with an interlocked coordination (for example, the harmonic *glissandi* in RM 1). These movements may be difficult to discern from a reading of the part alone, but should be clearly represented in the score. I advise that the players glance briefly at the score for each of these sections (RM 1, RM 4, RM 11, RM 13, RM 14, RM 19).

**RM 13-14-** I am repeated here what is written into the score for the sake of redundancy. "This section aims at producing tremolos between the various parts to create an effect reminiscent of the accelerating and decelerating phasing of a wheel strobe<sup>2</sup>. The player should execute an even tremolo that fluctuates from fast to slow on a linear time curve, ranging from roughly 720 BMP at the fastest to 240 BMP at the slowest, becoming sautillé bowing at the slowest. Each player should be aware of the accompanying parts, allowing for the various time curves to cross based on the written proportions (7-8-9-10; represented as 14", 16", 18", and 20" in the four parts).

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<sup>2</sup> I am referring here particularly to a strobe tuner; this phenomena can also be witnessed in the rims of tires while riding (on the passenger side) along the highway.

### **Movement 3- Oxygen (AQUA):**

This movement is more straightforward, metrically, than the previous two. However, because of the density of polyrhythms in the various parts, I advise the ensemble play along to a click track at  $\frac{1}{4}=120$  (it is OK if the piece is taken a little slower as well), so that the underlying pulse is never obscured by the various parts. The Lightbulb Ensemble has so far learned the piece along to a click track.

The overarching structure of the piece is one full cycle of a 5-7-8-9 polyrhythm (2520  $1/16^{\text{th}}$  notes at  $\frac{1}{4}=120$  becomes 5'15" total duration). The first 1' of the piece spotlights the cycle of 7, in which the two baritones fill in all of the  $1/16^{\text{th}}$  notes in melodic groupings of seven; minute 2 spotlights the cycle of 5 in the soprano, tenor, and viola parts; minute 3 spotlights the cycle of 9 in the altos and violin 1; minute 4 spotlights the cycle of 8 in the sopranos and altos, while the viola outlines cycles of 5; minute 5 sees all of the cycles filling in all  $1/16^{\text{th}}$  notes and swirling around each other; the last 15 seconds give just the long-tone polyrhythms. My image of the piece is of fish on a coral reef; all change direction in a unified manner but not at the same instant, and their movement seems both asymmetric and symmetric, unpredictable but inevitable. Some notes:

**Hairpin Swells-** The dynamics throughout the piece should be steady in a global sense, but the foreground texture is designed to fluctuate. Therefore, all of the hairpin *cresendi* and *decrescendi* and meant to be a coming-in-and-out of texture. Therefore, at the lowest point of the hairpin, your part should still always be comfortable audible, and at the highest part of your hairpin, you should be in the foreground of the texture, but still less prominent in volume than whichever part is spotlighted, i.e. filling in all of the  $1/16^{\text{th}}$  notes. However, in RM C, the dynamics can be more dramatic rather than textural, and in RM D, since all parts are filling in the  $1/16^{\text{th}}$  notes, you can become the most dominant voice at the apex of your hairpin, although the dynamics should be textural again.

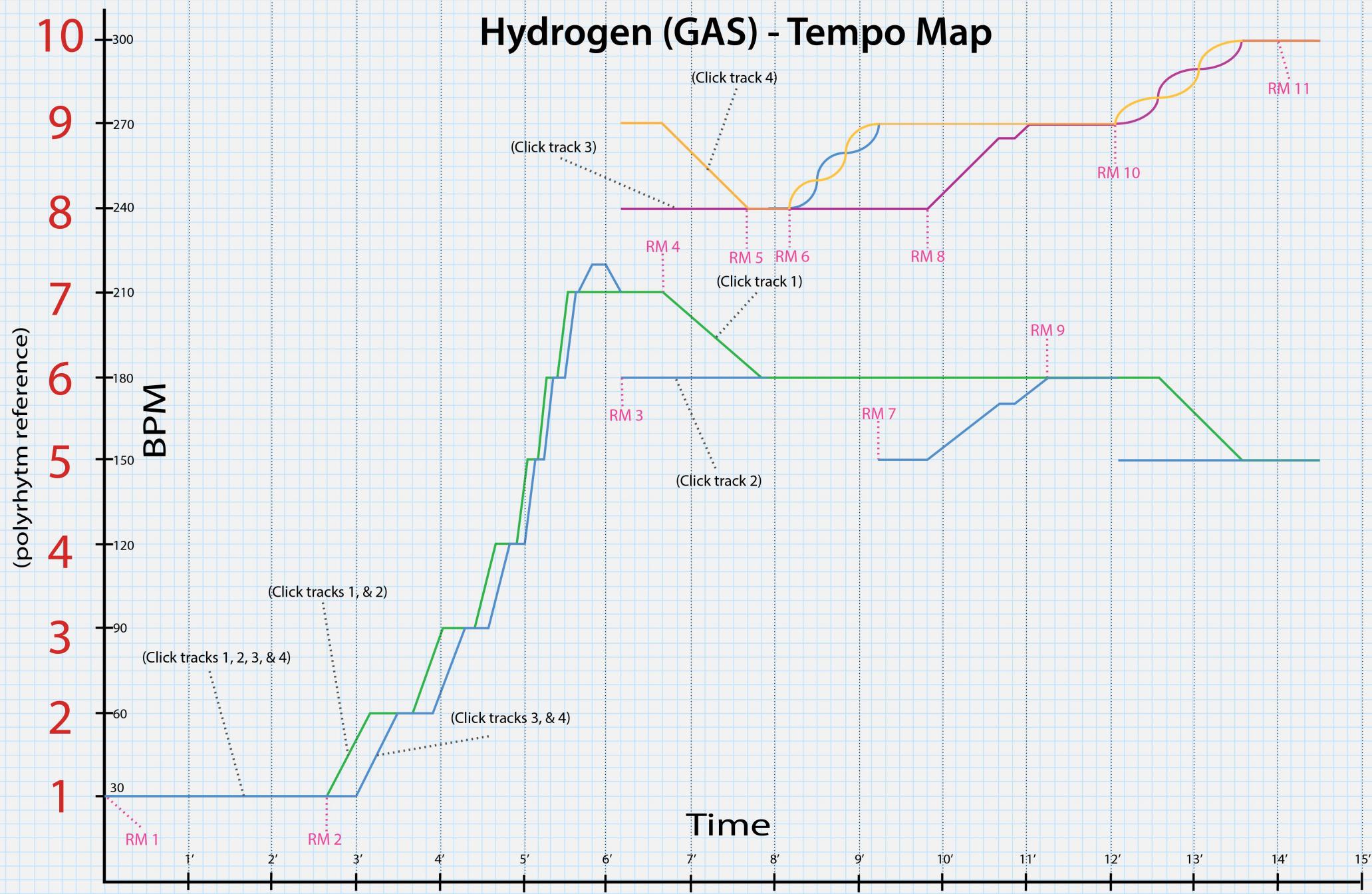
**Gongs-** Notes and rests have been highlighted in pink when they intersect with a gong stroke. This is meant to provide "grappling hooks" for reference throughout the piece, which can be quite dense. The gong strokes occur systematically; every instance that three of the four cycles of polyrhythms coincide.

Brian Baumbusch  
Santa Cruz, CA.  
September, 2015.

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Total Duration: ca. 33'

# Hydrogen (GAS) - Tempo Map



## ii. Hydrogen (ICE)

Brian Baumbusch

ca."20

1

Violin I

*mp*

Violin II

*mp*

Viola

*mp*

Violoncello

*mp*

Offset the beginnings of each gliss harm. so that the contour of the figures interlock between the four instruments throughout the phrase.

ca."10

ca."10

ca."10

ca."10

\*) gradually transition from harmonic to stopped finger pressure

soprano+

soprano-

alto+

alto-

tenor+

tenor-

baritone+

baritone-

bass

pencon 1

pencon 2

gong

ca. "20

**2**

**3** =50 ord.  
punta d'arco

con sord.

del niente **pp**

ord. punta d'arco

sul tasto

con sord.

del niente **pp**

ord. punta d'arco

sul pont.

con sord.

del niente **pp**

ord. punta d'arco

sul pont.

con sord.

del niente **pp**

ord. punta d'arco

sul pont.

to yarn

ca. "5 ca. "10 ca. "5 to yarn

yarn, face x3(ca.)

ca. "4 ca. "2 x3(ca.)

mp yarn, face

ca. "7

x2.5(ca.)

ca. "5 ca. "3

\*) roll on the face of the gong, not on the boss

\*) tremolo as fast as possible, use different stickings between the two players

ca."10

**4** ca."10  
Vln. I (f) *gliss. harm.* "2 sim. x5(ca.) 5. =70

Vln. II (f) *gliss. harm.* "3 sim. x3(ca.)

Vla. (f) *gliss. harm.* "4 sim. x2.5(ca.)

Vc. (f) *gliss. harm.* "5 sim. x2(ca.)

Offset the beginnings of each gliss. harm. so that the contour of the figures interlock between the four instruments throughout the phrase.

**5** ca."5 senza sord.

**6** =50 sul tasto punta d'arco

sop+ to wood p to metal p pp

sop+ to wood p to metal p pp

alt+ to wood p to metal p pp

alt+ to wood p to metal p pp

ten+ to wood p to metal p pp

ten+ to wood p to metal p pp

brt+ p pp

brt+ p pp

bss p pp

pnc1 ca."5 to rubber c mp

pnc2 ca."5 to rubber c mp

gng ca."5

ca."10

4

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

**7** =50  
as legato as possible, seamless

iii.

iv.  
(ii.)

ii.

iii.  
(ii.)

l.v.

yarn, face

yarn, face

mp

ca."10

8

Vln. I      \*) ricochet

Vln. II      \*) ricochet  
\*) continue upward port. into harmonic finger pressure while bow ricochets

Vla.      ricochet

Vc.      ricochet

sop+      -

sop-      -

alt+      -

alt-      -

ten+      -

ten-      -

brt+      *mp* "5"      "5"

brt-      *mp* "5"      "5"

bss      *mp* "5"      "5"

pnc1      coins!  
(yarn, face)  
*p*

pnc2      (yarn, face)  
*p*

gng      "5"      *mp* "5"

**9 =60**  
[Quasi Kebyar] martele





**13**

8

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

\*)

i.  
ii.  
iii.  
iv.  
\*)

ii.  
iii.  
iv.  
\*)

*mp*  
*mp*

\*) This section, continued on the next page, aims at producing phasing tremolos between the various parts, to create an effect reminiscent of a strobe accelerating and decelerating. The player should execute an even tremolo that fluctuates from fast to slow on a linear time curve, ranging from roughly 720 bpm at the fastest to 240 bpm at the slowest, becoming sautille at the slowest. Each player should be aware of the accompanying parts, allowing for the various time curves to cross based on the written proportions (7-8-9-10).

ca."100

**14**

Vln. I (mp) ca."14 (repeat rhythm and duration, changing notes in the following sequence)x7 → ii. [2nd rep.] iii. [3rd rep.] iv. [4th rep.] ii. [5th rep.] i. [6th rep.] ii. [7th rep.] 9

Vln. II (mp) ca."16 (repeat rhythm and duration, changing notes in the following sequence)x6 → iii. [2nd rep.] iv. [3rd rep.] ii. [4th rep.] i. [5th rep.] ii. [6th rep.] i.

Vla. L ca."18 (repeat rhythm and duration, changing notes in the following sequence)x5, 1/2 → iii. [2nd rep.] iv. [3rd rep.] iii. [4th rep.] ii. [5th rep.] i. ii. [6th rep., 1/2]

Vc. ca."20 (repeat rhythm and duration, changing notes in the following sequence)x5 → iii. [2nd rep.] ii. [3rd rep.] i. ii. [4th rep.] ii. [5th rep.]

sop+ =50 Quasi Kebayar L ca."60 pp ca."20

sop- L ca."60 pp ca."20

alt+ L ca."60 pp ca."20

alt- L ca."60 pp ca."20

ten+ L ca."60 pp ca."20

ten- L ca."60 pp ca."20

brt+ L ca."60 pp ca."20

brt- L ca."60 pp ca."20

bss L ca."60 pp ca."20

pnc1 (yarn, face) x2(ca.) ca."70 7" 7"

pnc2 (yarn, face) x2(ca.) ca."70 8" 8"

gng x3(ca.) ca."70 10"

15 ca."10  
con sord.

16 =50  
as legato as possible, seamless

Vln. I

Vln. II

Vla.

Vc.

sop+  
ca. "5 ca. "5  
*p*

sop-  
ca. "5 ca. "5  
*p*

alt+  
ca. "5 ca. "5  
*p*

alt-  
ca. "5 ca. "5  
*p*

ten+  
ca. "5 ca. "5  
*p*

ten-  
ca. "5 ca. "5  
*p*

brt+

brt-

bss

pnc1  
fast, soft tremolo x3(ca.) to wood

pnc2  
fast, soft tremolo x2.5(ca.) to wood

gng  
fast, soft tremolo x2(ca.)

*p* 3"  
*p* 4"  
*p* 5"

Musical score page 17, featuring 12 staves of music for the following instruments:

- Vln. I
- Vln. II
- Vla.
- Vc.
- sop+
- sop-
- alt+
- alt-
- ten+
- ten-
- brt+
- brt-
- bss
- pnc1
- pnc2
- gng

The score includes dynamic markings such as *p*, *mf*, and *mp*. Measure 17 consists of 8 measures of music. Measures 1-4 feature sustained notes with grace notes and slurs. Measures 5-8 show rhythmic patterns with eighth and sixteenth notes, primarily in the lower voices. Measures 9-12 continue the rhythmic patterns established in the previous measures.

12

18 *Quasi Kebyar* *martele* *spicatto*

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

*wood, boss*

*open face*

*mp*

ca."10  
**19**  
 senza sord.  
 ii. ord.      sim.      x3(ca.)  
 gliss. harm.

=50  
**ca."10**  
 senza sord.  
 iii. ord.      sim.      x3(ca.)  
 gliss. harm.

**20**  
 senza sord.  
 iii. ord.      sim.      x3(ca.)  
 gliss. harm.

Vln. I  
 Vln. II  
 Vla.  
 Vc.  
 sop+  
 sop-  
 alt+  
 alt-  
 ten+  
 ten-  
 brt+  
 brt-  
 bss  
 pnc1  
 pnc2  
 gng

(wood, boss)  
 mp

(i.)  
 (ii.)  
 (iii.)  
 13

ca."3  
 ca."3

\*) gradually change from harmonic to regular stopped finger pressure

to yarn  
 to yarn  
 to yarn  
 to yarn  
 to yarn  
 to yarn  
 to yarn, face  
 to yarn, face

21

14

Vln. I

Vln. II

Vla.

Vc. ord.

f

sop+

sop-

alt+

to yarn

alt-

ten+

ten-

brt+

brt-

bss

pnc1

to rubber

pnc2

to yarn

gng

\*) harmonic finger pressure

**22**  $\text{♩} = 130$   
*sul pont.  
marcelle*  
 Vln. I  
*mp*  
 Vln. II  
*mp*  
 Vla.  
*sul pont.  
marcelle*  
*mp*  
 Vc.  
*sul pont.  
marcelle*  
*mp*  
 sop+  
*p*  
 sop-  
*p*  
 alt+  
*p*  
 alt-  
*p*  
 ten+  
*p*  
 ten-  
*p*  
 brt+  
*p*  
 brt-  
*p*  
 bss  
*p*  
 pnc1  
*rubber, face*  
*mp*  
 pnc2  
*yarn, face*  
*mp*  
 gng

**23**  
 15



25

Vln. I      17

Vln. II

Vla.

Vc.

sop+      5 p      ii.      iv.      10 p      ii.      5 p      iii.      5 mp      i.

sop-      5 p      ii.      iv.      10 p      ii.      5 p      iii.      5 mp      i.

alt+      s      p      ii.      5 mp      ii.      5 mp      ii.      5 mp      ii.

alt-      s      p      ii.      5 mp      ii.      5 mp      ii.      5 mp      ii.

ten+      to wood      l.v.      mp      to wood      l.v.      mp

ten-      to wood      l.v.      mp

brt+      s      mp      s      mp      s      mp      s      mp

brt-      s      mp      s      mp      s      mp      s      mp

bss      s      mp

pnc1      yarn, face      mp      yarn, face      mp

pnc2      to rubber      mp

gng

18

**26**  $\text{♩} = 90$

Vln. I

Vln. II

Vla.

Vc.

sop+  $p$

sop-  $\text{♩}$

alt+  $s$

alt-  $s$

ten+  $s$

ten-  $s$

brt+  $s$

brt-  $s$

bss  $p$

pnc1  $p$

pnc2  $p$

gng

**27**  $\text{♩} = 60$   
marcelle

*sul pont.*

*sul pont.*

*(sul pont.)*

*sul pont.*

*(sul pont.)*

*sul pont.*

*(sul pont.)*

*(sul pont.)*

28

ca."5"      ca."5"      ca."5"      ca."5"      ca."5"      ca."5"

Vln. I      ord.                                    

Vln. II      ord.                                    

Vla.      ord.                                    

Vc.      ord.                                    

sop+                                    

sop-                                    

alt+                                    

alt-                                    

ten+                                    

ten-                                    

brt+                                    

brt-                                    

bss                                    

pnc1                                    

pnc2                                    

gng                                    

ca."5"      ca."5"      ca."5"      ca."5"      ca."5"      ca."5"

attacca

to yarn      to yarn

yarn, face      yarn, face

*p*

19

### iii. Oxygen [AQUA]

Brian Baumbusch

J=120

*as legato as possible*

*mp*  
*as legato as possible*

*mp*  
*as legato as possible*

*mp*  
*as legato as possible*

*#mp*

*p*

*p*

*p*

*mp*

*p*

*p*

*mf*

*mf*

*mp*

*Trompong, Unmuted open-face strokes until mm. 91*

*p*

*Muted strokes on LBE Pencon*

*p*

*gong*

2

(8)

2 Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

This page contains two systems of musical notation, each consisting of ten staves. The top system (measures 7-8) includes staves for 2 Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The bottom system (measures 9-10) includes staves for 2 Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The notation uses standard musical symbols like quarter and eighth notes, rests, and dynamic markings. Measure 7 starts with sustained notes from the strings and woodwind octaves. Measure 8 begins with eighth-note patterns in the brass and piano. Measure 9 features eighth-note patterns in the brass and piano. Measure 10 concludes with sustained notes from the strings and woodwind octaves.

13

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

*sfor.*

*pizz.*

*f*

*mf*

This page contains 13 staves of musical notation. The instruments are listed on the left, grouped into sections: strings (Vln. I, Vln. II, Vla., Vc.), soprano voices (sop+, sop-), alto voices (alt+, alt-), tenor voices (ten+, ten-), brass (brt+, brt-), bass (bss), and percussion (pnc1, pnc2, gng). The score includes dynamic markings such as *sfor.*, *pizz.*, *f*, and *mf*. Measure 13 begins with a dynamic *sfor.* for strings. Measures 14-15 feature woodwind entries with slurs and grace notes. Measure 16 has a sustained note from the bassoon. Measures 17-18 show more woodwind activity. Measure 19 starts with a dynamic *pizz.* for strings, followed by a forte dynamic *f*. The bassoon continues its rhythmic pattern. Measures 20-21 show woodwind entries. Measure 22 ends with a dynamic *mf*.

4

19

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

8va

This is a page from a musical score. The page number '4' is at the top left, and the measure number '19' is at the top center. The score is for a full orchestra and includes parts for Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The vocal parts (sop+, sop-, alt+, alt-) have pink dots above them. The bassoon part (bss) has a 's' above it. The percussion parts (pnc1, pnc2) have a 'p' above them. The gong part (gng) has a 'g' above it. The dynamic '8va' is at the top right. The music consists of two systems of staves, with the second system starting at measure 19.

(8)-----1

25 5

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

**A**

6 Vln. I

Vln. II arco detache, legato

Vla. f

Vc.

sop+ *mf*

sop. *mf*

alt+ *s*

alt. *s*

ten+ *mf*

ten. *mf*

brt+ *s*

brt. *s*

bss

pnc1

pnc2

gng

8m -

detache lance

detache, legato

*mf*

detache lance

37

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

8va -

7

This image shows a page from a musical score. The page is numbered 37 at the top left and 7 at the top right. The score consists of 16 staves, each representing a different instrument or voice. The instruments listed from top to bottom are: Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The music is divided into measures by vertical bar lines. A bracket above the eighth measure (labeled '8va -') covers the next two measures. Several pink arrows point to specific notes in the alt+ and alt- staves, likely indicating performance markings such as grace notes or specific attack points. The notation includes various note heads, stems, and rests, typical of classical music notation.

8 43

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

48

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

8va

This page of musical notation represents a section of a symphony or similar large-scale composition. The instrumentation includes strings (Vln. I, Vln. II, Vla., Vc.), voices (sop+, sop-, alt+, alt-, ten+, ten-), brass (bss), and percussion (pnc1, pnc2, gng). The notation uses standard musical symbols like quarter notes, eighth notes, sixteenth notes, and rests. Measure 48 begins with a dynamic instruction of 8va (octave up). The music features complex rhythmic patterns, including sustained notes and groups of eighth and sixteenth notes. The vocal parts show a mix of sustained notes and more active, rhythmic patterns. The brass and percussion parts provide harmonic support with sustained notes and rhythmic patterns. The gong is used as a single, brief note.

10 53

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

59

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

8<sup>va</sup> 1

B *detache, legato*

*mf*

11

This page contains two systems of musical notation. The first system (measures 59-60) shows sustained notes and eighth-note patterns across all staves. The second system (measures 61-62) begins with a dynamic marking of *mf*. It features a melodic line for Violin I (Vln. I) starting at measure 61, followed by sustained notes and eighth-note patterns. The instrumentation includes Violin I, Violin II, Cello (Vla.), Double Bass (Vc.), Soprano (sop+/-), Alto (alt+/-), Tenor (ten+/-), Bassoon (bss), and Percussion (pnc1, pnc2, gong). The score concludes with a dynamic marking of *p* at the end of measure 62.

12 65

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

*flautando,  
accent each note*

*mp*

*flautando,  
accent each note*

*mp*

*flautando,  
accent each note*

*mp*

*mf*

*mf*

71

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

73

14 77

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

83

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

15

16 89

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

**C**

legato, lyrical,  
but no vib.

sul pont.,  
martele (pronounced but gentle)

mf

sul pont., sautille

f sul pont.,  
martele (pronounced but gentle)

mf

p

p

p

Trompong, muted strokes

mp

Trompong, open/closed

mp

94

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

17

This musical score page shows two measures of music for a large orchestra. The left measure (measures 94) and right measure (measure 17) are separated by vertical bar lines. The score includes parts for strings (Violin I, Violin II, Viola, Cello), soprano voices (sop+, sop-), alto voices (alt+, alt-), tenor voices (ten+, ten-), bass (bss), and two percussionists (pnc1, pnc2). The vocal parts sing eighth-note patterns, while the instruments play sustained notes or rhythmic patterns. Measure 17 concludes with a single sustained note from the bassoon.

18 98

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

102

Vln. I

*sp*

Vln. II

*sp*

Vla.

*sp*

Vc.

sop+

*sp*

sop-

*sp*

alt+

*sp*

alt-

*sp*

ten+

ten-

brt+

brt-

bss

pnc1

*sp*

pnc2

*sp*

gng

19

This is a page from a musical score, likely for orchestra or large ensemble. The page is divided into four measures by vertical bar lines. The instrumentation includes strings (Vln. I, Vln. II, Vla., Vc.), soprano voices (sop+, sop-), alto voices (alt+, alt-), tenor voices (ten+, ten-), brass (brt+, brt-), bass (bss), and two percussion parts (pnc1, pnc2). The dynamics are primarily 'p' (pianissimo) and 'sp' (pianississimo). The vocal parts (soprano, alto, tenor) appear to be singing eighth-note patterns. The brass and bass parts provide harmonic support with sustained notes and chords. The percussion parts (pnc1, pnc2) play eighth-note patterns. The page number '102' is at the top left, and '19' is at the top right.

20 106

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

111

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

21

22 115

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

This page contains 14 staves of musical notation. The top four staves are for strings: Violin I (Vln. I), Violin II (Vln. II), Cello (Vc.), and Double Bass (bss.). The next five staves are for voices: soprano (sop+), soprano (sop-), alto (alt+), alto (alt-), and tenor (ten+). The bottom five staves are for percussion: bass drum (brt+), snare drum (brt-), bassoon (bss), first percussionist (pnc1), and second percussionist (pnc2). The score is numbered 22 at the top left, and the measure number 115 is centered above the staff. Dynamics are indicated by black text on the staff, such as 'p' (piano), 'f' (forte), 'sf' (sforzando forte), and 'sp' (sforzando piano). There are also several pink markings on the staves, particularly in the lower sections, which likely represent specific performance instructions or notes from the conductor.

D

120

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

detache, legato

detache, legato

detache, legato

sautille, driving

*mf*

123

This page of musical notation shows a complex arrangement for orchestra and percussion. The instrumentation includes two violins, two cellos, two bassoons, two alto recorders, two tenor recorders, two brasses, and two timpani. The score is divided into measures 120 through 123. Measure 120 begins with 'detache, legato' for the strings. Measures 121 and 122 continue with similar string patterns. Measure 122 introduces 'sautille, driving' for the bassoon and double bass. Measure 123 concludes the section. Various dynamics like forte, piano, and mezzo-forte are indicated throughout. The percussion parts (pnc1, pnc2, gng) provide rhythmic support with sustained notes and eighth-note patterns.

24 124

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

This page of musical notation represents a score for a 16-part orchestra. The instrumentation includes two violins (Vln. I, Vln. II), two cellos (Vla., Vc.), two sopranos (sop+, sop-), two altos (alt+, alt-), two tenors (ten+, ten-), two basses (brt+, brt-), one double bass (bss), and three percussions (pnc1, pnc2, gng). The score is organized into four measures. Measures 1 and 3 feature eighth-note patterns, while Measures 2 and 4 feature sixteenth-note patterns. Pink boxes highlight specific notes in the alt+ and alt- parts of Measure 4. The tempo is set at 124 BPM.

128

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

25

This page contains four measures of musical notation for a 15-part orchestra. The parts listed on the left are Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The music consists of eighth and sixteenth-note patterns. Measure 1 starts at measure 128 and ends at measure 25. Measure 25 is indicated by a double bar line and a '25' above the staff.

26 132

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

136

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

27

This page contains 15 staves of musical notation for a large ensemble. The staves are labeled on the left: Vln. I, Vln. II, Vla., Vc., sop+, sop-, alt+, alt-, ten+, ten-, brt+, brt-, bss, pnc1, pnc2, and gng. The page is divided into two systems by vertical bar lines. The first system (measures 136-27) features mostly eighth-note patterns. The second system (measure 27) begins with a dynamic change and more complex rhythmic patterns, including sixteenth-note figures and sustained notes. Some notes are highlighted in pink.

28 140

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

144

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

pnc1

pnc2

gng

29

This page of musical notation represents a section of an orchestral score. It begins at measure 144 and concludes at measure 29. The score is organized into twelve staves, each corresponding to a specific instrument or group of instruments. The instruments listed from top to bottom are: Violin I, Violin II, Cello, Double Bass, Soprano, Alto, Tenor, Bass, and Percussion sections (pnc1, pnc2, gng). The notation uses standard musical symbols such as black notes, rests, and dynamics (e.g., crescendos, decrescendos). Measure 144 features a prominent forte dynamic. Measure 29 marks the end of the section, also with a forte dynamic. The page is filled with a dense grid of musical symbols, indicating a complex and rhythmic piece of music.



152

Vln. I

Vln. II

Vla.

Vc.

sop+

sop-

alt+

alt-

ten+

ten-

brt+

brt-

bss

Unmuted open-face strokes

pnc1

*p*

Muted Strokes on LBE Pencos

pnc2

*p*

gng

31