

Collapse

for three cellos, two basses, and two percussionists

by

M. Scott Johnson

Collapse

this is a work created to be accessible to persons with hearing-impairments, through the music itself as well as through visual elements of the performance and vibrotactile stimulation

- instances of repeat signs followed by numbers (eg." x16"), this number includes the initial statement
- this work is intended to be performed with some sort of visual element that corresponds and enhances the music
 - all instruments should be visible at all times of the performance (for the audience to see bowings, etc.)
 - a video is available to be played along during the performance
a click track may be used to insure that the performance syncs up with the video
 - another visual medium may be used (such as dance, special staging, or lighting)
 - you may choose to present something other than the narrative of a star collapsing, presenting the idea of "collapse" and the expanding and contracting motion in a different way
- the sensation of vibrations from the music plays an important role in the musical narrative and reception of the work
 - choose a performance space that is conducive to the vibrations in the music, if one is not available, use amplification as needed (subwoofers, etc.)
 - external vibrotactile aids may be used to enhance this experience, inflated balloons are an excellent aid, and can be handed to all members of the audience with instructions
- the final section of the piece (with graphic notation) should be performed as smoothly as possible.

Percussion Used

percussionist 1	-	3 timpani: 32" - G 25" - Db 21" - A
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percussionist 2	-	2 timpani: 28" - A 23" - E bass drum
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Collapse

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The Steady Heartbeat of a Star ($\text{♩} = 74$)

Musical score for *Collapse* featuring six staves:

- Cello 1:** Staff 1, 3/4 time, bass clef. Measures show rests followed by a sixteenth-note pattern (pizz.) repeated x5.
- Cello 2:** Staff 2, 3/4 time, bass clef. Measures show rests followed by a sixteenth-note pattern (pizz.) repeated x19.
- Cello 3:** Staff 3, 3/4 time, bass clef. Measures show rests followed by a sixteenth-note pattern (pizz.) repeated x36.
- Bass 1:** Staff 4, 3/4 time, bass clef. Measures show rests followed by a sixteenth-note pattern (pizz.) with a circled dot, repeated x36.
- Bass 2:** Staff 5, 3/4 time, bass clef. Measures show rests followed by a sixteenth-note pattern (pizz.) repeated x38.
- Timpani 1 (G, C#, A):** Staff 6, 3/4 time, bass clef. Measures show eighth-note patterns (pizz.) repeated x39.
- Timpani 2 (A, E):** Staff 7, 3/4 time, bass clef. Measures show rests.
- Bass Drum:** Staff 8, 3/4 time, bass clef. Measures show eighth-note patterns (pizz.) with a dampen instruction at the end.

Tempo: $\text{♩} = 74$

A

9

Vlc. 1

p *espress.*

9

tutti

cresc. poco a poco

This musical score excerpt is labeled 'A'. It features two staves. The top staff is for 'Vlc. 1' and the bottom staff is for 'tutti'. The time signature is common time (indicated by '9'). The first measure shows a dynamic 'p' followed by 'pp' and a crescendo instruction 'cresc. poco a poco'. The second measure shows a dynamic 'p' followed by 'pp' and a crescendo instruction 'cresc. poco a poco'.

17

Vlc. 1

>

17

Vlc. 2

17

tutti

pizz.

pp

cresc. poco a poco

arco

p

espress.

This musical score excerpt is labeled 'B'. It features three staves. The top staff is for 'Vlc. 1', the middle staff for 'Vlc. 2', and the bottom staff for 'tutti'. The time signature is common time (indicated by '17'). The first measure shows a dynamic 'p' followed by 'pp' and a crescendo instruction 'cresc. poco a poco'. The second measure shows a dynamic 'p' followed by 'pp' and a crescendo instruction 'cresc. poco a poco'.

25

Vlc. 1

Vlc. 2

> < — <

25

tutti

This section of the score features three staves. The top staff is for 'Vlc. 1' and the bottom staff is for 'tutti'. Both play continuous sixteenth-note patterns. The middle staff is for 'Vlc. 2' and includes eighth-note patterns with dynamics (p, f) and performance instructions like 'arco', 'legato', '>', '<', and a horizontal line with a break symbol. Measure numbers '25' are positioned above the first and third staves.

33

Vlc. 1

arco
p legato

Vlc. 2

p legato

33

tutti

This section of the score features three staves. The top staff is for 'Vlc. 1' and the bottom staff is for 'tutti'. Both play continuous sixteenth-note patterns. The middle staff is for 'Vlc. 2' and includes eighth-note patterns with dynamics (p, f) and performance instructions like 'arco', 'legato', and a horizontal line with a break symbol. Measure number '33' is positioned above the first and third staves.

Collapse

B

41

Vlc. 1

Vlc. 2

Vlc. 3

mp

cresc. poco a poco

Cb. 1

mp

cresc. poco a poco

sim.

Cb. 2

mp

cresc. poco a poco

Tim. 1

mp

cresc. poco a poco

B. Dr.

mp let ring

cresc. poco a poco

This musical score page contains six staves of music for orchestra and bass drum. The top three staves are for violins (Vlc. 1, Vlc. 2, Vlc. 3) in 4/4 time, with dynamic markings 'mp' at the beginning, followed by 'cresc. poco a poco' and 'mf' towards the end. The bottom three staves are for cello (Cb. 1), cello (Cb. 2), and timpani (Tim. 1) in 4/4 time, with dynamic markings 'mp' at the beginning, followed by 'cresc. poco a poco'. The bass drum (B. Dr.) staff at the bottom is in 2/4 time, with dynamic markings 'mp' and 'let ring' at the beginning, followed by 'cresc. poco a poco'. Measure numbers 41 and 42 are indicated above the staves. A section header 'Collapse' is centered above the score. A box labeled 'B' is positioned above the first violin staff.

47

This musical score page shows six staves of music for orchestra, starting at measure 47. The staves are as follows:

- Vlc. 1:** Bass clef, 4/4 time. Playing eighth-note patterns.
- Vlc. 2:** Bass clef, 4/4 time. Playing eighth-note patterns. Dynamics: *mf*, *cresc. poco a poco*.
- Vlc. 3:** Bass clef, 4/4 time. Playing eighth-note patterns.
- Cb. 1:** Treble clef, 4/4 time. Playing eighth-note patterns.
- Cb. 2:** Treble clef, 4/4 time. Playing eighth-note patterns.
- Timp. 1:** Bass clef, 4/4 time. Playing eighth-note patterns.
- B. Dr.** Bass clef, 4/4 time. Playing eighth-note patterns.

Dynamics and performance instructions include *cresc. poco a poco* appearing twice and *mf* once.

Collapse

52

The musical score consists of seven staves. The top three staves are for the strings: Vlc. 1 (Violin 1), Vlc. 2 (Violin 2), and Vlc. 3 (Violin 3). The bottom four staves are for the brass: Cb. 1 (Cello 1), Cb. 2 (Cello 2), Timp. 1 (Timpani 1), and B. Dr. (Bass Drum). The score is divided into measures by vertical bar lines. Measure 52 starts with a dynamic of **f**. The strings play eighth-note patterns with grace notes. Measures 53-54 show the strings continuing their eighth-note patterns. Measure 55 begins with a dynamic of **f**. Measures 56-57 show the strings continuing their eighth-note patterns. Measure 58 begins with a dynamic of **b**. Measures 59-60 show the strings continuing their eighth-note patterns. The brass entries begin in measure 53. Cb. 1 and Cb. 2 play eighth-note patterns. Timp. 1 plays eighth-note patterns. B. Dr. plays sustained notes with grace notes. In measure 58, there is a dynamic change to **legato**.

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

legato

Cb. 2

Timp. 1

B. Dr.

Collapse

7

Musical score for strings and timpani, page 7, system 57.

The score consists of five staves:

- Vlc. 1**: Bass clef, 4/4 time, key signature of one flat. Playing eighth-note patterns.
- Vlc. 2**: Bass clef, 4/4 time, key signature of one flat. Playing eighth-note patterns.
- Vlc. 3**: Bass clef, 4/4 time, key signature of one sharp. Playing eighth-note patterns.
- Cb. 1**: Treble clef, 4/4 time, key signature of one sharp. Playing eighth-note patterns. The instruction "legato" is written above the staff.
- Cb. 2**: Treble clef, 4/4 time, key signature of one sharp. Playing eighth-note patterns.
- Tim. 1**: Bass clef, 4/4 time, key signature of one sharp. Playing eighth-note patterns.
- B. Dr.**: Bass clef, 4/4 time, key signature of one sharp. Playing eighth-note patterns.

Measure 57 begins with a dynamic of p .

Collapse

Musical score for orchestra, page 8, section titled "Collapse". The score consists of six staves:

- Vlc. 1**: Bassoon 1 part. Dynamics: **f**, **p**, **f**.
- Vlc. 2**: Bassoon 2 part.
- Vlc. 3**: Bassoon 3 part. Dynamics: **mf**, **p**, **f**.
- Cb. 1**: Bassoon 1 part.
- Cb. 2**: Bassoon 2 part. Dynamics: **mf**, **p**.
- Timp. 1**: Timpani 1 part.
- B. Dr.**: Bass Drum part.

The score is numbered 62 at the top left. Measures 1 through 4 show eighth-note patterns on Vlc. 1 and Vlc. 2. Measure 5 shows eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 6 through 8 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 9 through 12 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 13 through 16 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 17 through 20 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 21 through 24 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 25 through 28 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 29 through 32 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 33 through 36 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 37 through 40 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 41 through 44 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 45 through 48 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 49 through 52 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 53 through 56 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 57 through 60 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 61 through 64 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 65 through 68 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 69 through 72 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 73 through 76 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 77 through 80 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 81 through 84 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3. Measures 85 through 88 show eighth-note patterns on Vlc. 1 and Vlc. 2, followed by sustained notes on Vlc. 3.

Collapse

9

67

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

Cb. 2

Tim. 1

B. Dr.

rit.

f ⁵ *p* *f*

mp *f*

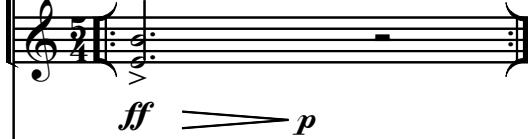
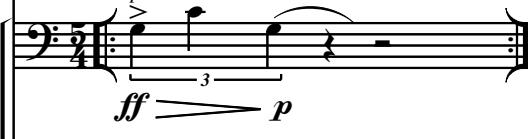
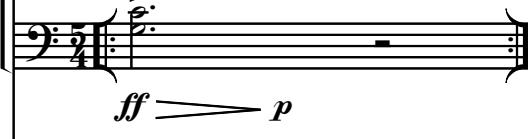
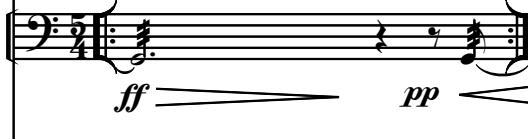
f

ff *sp* <

Collage

This musical score page contains six staves of music for orchestra and bass drum. The staves are labeled from top to bottom: Vlc. 1, Vlc. 2, Vlc. 3, Cb. 1, Cb. 2, and Tim. 1. The bass drum part is labeled B. Dr. The score begins at measure 67. The first three staves (Vlc. 1, Vlc. 2, Vlc. 3) feature melodic lines with various dynamic markings: 'f' followed by a crescendo arrow pointing to 'p' (measures 67-68), then back to 'f' (measures 69-70). The second staff (Vlc. 2) also has a dynamic 'f' followed by a crescendo arrow pointing to 'p' (measures 71-72), then back to 'f' (measures 73-74). The third staff (Vlc. 3) has a dynamic 'mp' followed by a crescendo arrow pointing to 'f' (measures 75-76). The fourth staff (Cb. 1) consists of a continuous eighth-note pattern. The fifth staff (Cb. 2) features sustained notes with dynamic markings: 'f' (measure 67), followed by 'bass clef' and 'flat sign' (measures 68-69), then 'bass clef' and 'no sharp/no flat sign' (measures 70-71), then 'bass clef' and 'flat sign' (measures 72-73), then 'bass clef' and 'no sharp/no flat sign' (measures 74-75). The sixth staff (Tim. 1) shows sustained notes with dynamic markings: 'ff' followed by a crescendo arrow pointing to 'sp' (measures 76-77). The bass drum part (B. Dr.) consists of a continuous eighth-note pattern. The score concludes with a section labeled 'rit.' (ritardando) and a final dynamic marking 'ff sp <'.

A Red Giant ($\text{♩} = 60$)

Vlc. 1 72 x12 
Vlc. 2 x4 
Vlc. 3 x12 
Cb. 1 x12 
Cb. 2 x12 
Timp. 1 x11 
Timp. 2 x12 
B. Dr. x12 

78

Vlc. 1

Vlc. 2 *sul pont.*

Vlc. 3

Cb. 1

Cb. 2

Tim. 1

Tim. 2

B. Dr.

Vlc. 1: Sustained note at **ppp**.

Vlc. 2: Eighth-note pairs starting at **p**, followed by **mp** and **pp**.

Vlc. 3: Sustained note at **ppp**.

Cb. 1: Sustained note at **ppp**.

Cb. 2: Sustained note.

Tim. 1: Sustained note followed by a dynamic marking **ff** **sp**.

Tim. 2: Sustained note.

B. Dr.: Sustained note.

Collapse

84

C gradual accel. - - -

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

Cb. 2

ff > p mf > p mp > pp p > pp sim.

Tim. 1

Tim. 2

mf mp

B. Dr.

ff mf mp p sim.

89 (gradual accel.) - - -

The musical score consists of seven staves. From top to bottom: Vlc. 1 (Treble clef), Vlc. 2 (Bass clef), Vlc. 3 (Bass clef), Cb. 1 (Bass clef), Cb. 2 (Bass clef), Tim. 1 (Bass clef), and B. Dr. (Bass clef). The score begins with a gradual acceleration from measure 89. The strings play eighth-note patterns with grace notes. The brass and timpani provide harmonic support with sustained notes and rhythmic patterns. Measure 90 starts with a dynamic *p* for Cb. 1 and Cb. 2, followed by a dynamic *sim.* (similar) in the next measure. The bass drum provides a steady rhythmic foundation throughout the section.

Collapse

95 (gradual accel.)

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

Cb. 2

Tim. 1

B. Dr.

101 (gradual accel.)

D

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

Cb. 2

Tim. 1

B. Dr.

mp

mp

mp

mp

mp

mp

mp

mp

Collapse

108 (gradual accel.)

The musical score consists of seven staves. From top to bottom: Vlc. 1 (Treble clef), Vlc. 2 (Bass clef), Vlc. 3 (Bass clef), Cb. 1 (Bass clef), Cb. 2 (Bass clef), Timp. 1 (Bass clef), and B. Dr. (Bass clef). The music is in common time. Measure 108 begins with a gradual acceleration. The first three measures show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 4-7 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 8-11 show eighth-note patterns on Timp. 1. Measures 12-15 show eighth-note patterns on B. Dr. Measure 16 starts with a dynamic of *dim.* for all instruments. Measures 17-20 show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 21-24 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 25-28 show eighth-note patterns on Timp. 1. Measures 29-32 show eighth-note patterns on B. Dr. Measure 33 starts with a dynamic of *dim.* for all instruments. Measures 34-37 show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 38-41 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 42-45 show eighth-note patterns on Timp. 1. Measures 46-49 show eighth-note patterns on B. Dr. Measure 50 starts with a dynamic of *dim.* for all instruments. Measures 51-54 show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 55-58 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 59-62 show eighth-note patterns on Timp. 1. Measures 63-66 show eighth-note patterns on B. Dr. Measure 67 starts with a dynamic of *dim.* for all instruments. Measures 68-71 show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 72-75 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 76-79 show eighth-note patterns on Timp. 1. Measures 80-83 show eighth-note patterns on B. Dr. Measure 84 starts with a dynamic of *dim.* for all instruments. Measures 85-88 show eighth-note patterns on Vlc. 1, Vlc. 2, and Vlc. 3. Measures 89-92 show eighth-note patterns on Cb. 1 and Cb. 2. Measures 93-96 show eighth-note patterns on Timp. 1. Measures 97-100 show eighth-note patterns on B. Dr.

116 (gradual accel.)

The musical score consists of seven staves. From top to bottom: Vlc. 1 (Treble clef), Vlc. 2 (Bass clef), Vlc. 3 (Bass clef), Cb. 1 (Bass clef), Cb. 2 (Bass clef), Timp. 1 (Bass clef), and B. Dr. (Bass clef). The tempo is marked as 116 with a gradual acceleration. The first three staves (Vlc. 1, Vlc. 2, Vlc. 3) play eighth notes. The next three staves (Cb. 1, Cb. 2, Timp. 1) play sixteenth notes. The B. Dr. staff plays eighth notes.

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

Cb. 2

Timp. 1

B. Dr.

Collapse

124 (gradual accel.)

A musical score for orchestra and bass drum. The score consists of six staves. From top to bottom: Vlc. 1 (Treble clef), Vlc. 2 (Bass clef), Vlc. 3 (Bass clef), Cb. 1 (Bass clef), Cb. 2 (Bass clef), and Timp. 1 (Bass clef). The bass drum part (B. Dr.) is at the bottom. The score is in common time (indicated by a '4'). The instrumentation includes three violins, two cellos, one double bass, one timpani, and one bass drum. The music features various rhythmic patterns, including eighth-note chords and sixteenth-note patterns. Measure 124 begins with a gradual acceleration. The score ends with a dynamic collapse.

Vlc. 1

Vlc. 2

Vlc. 3

Cb. 1

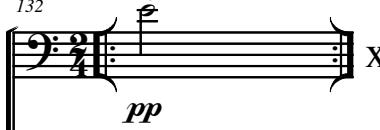
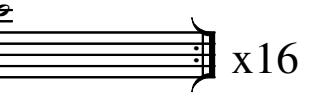
Cb. 2

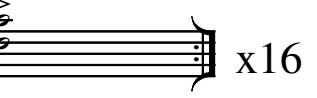
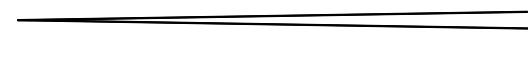
Timp. 1

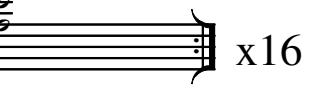
B. Dr.

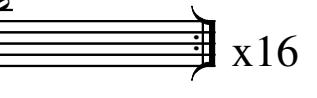
White Dwarf ($\text{d} = 100$)

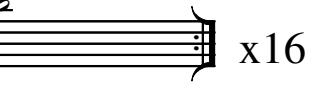
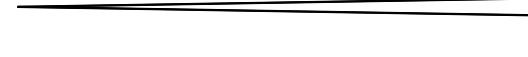
132

Vlc. 1  x16   x16 
sul tasto → ord.

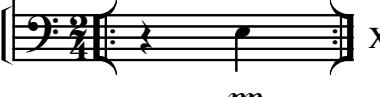
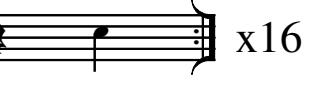
Vlc. 2  x16   x16 
sul tasto → ord.

Vlc. 3  x16   x16 
sul tasto → ord.

Cb. 1  x16   x16 
pizz.

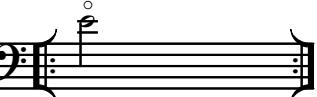
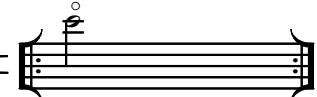
Cb. 2  x16   x16 
pizz.

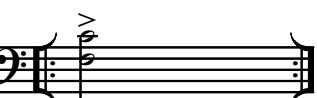
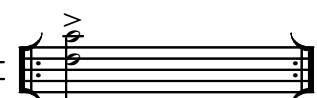
Timp. 1  x16   x16 
pp

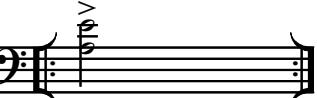
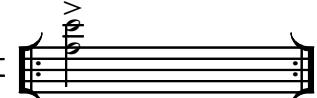
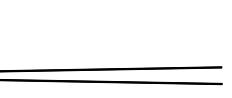
Timp. 2  x16   x16 
pp

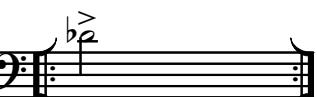
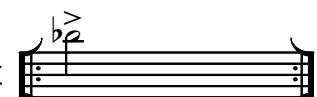
Collapse

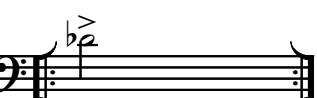
molto accel.  (d = 250)

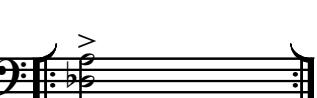
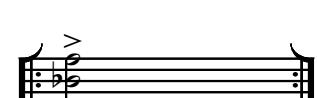
Vlc. 1  x16  x16 

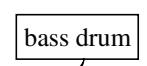
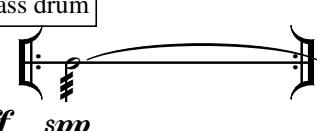
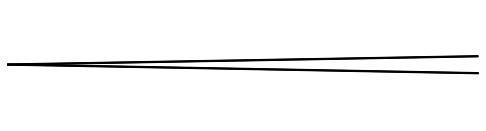
Vlc. 2  x16  x16 

Vlc. 3  x16  x16 

Cb. 1  x16  x16 

Cb. 2  x16  x16 

Tim. 1  x16  x16 

Tim. 2  x16  bass drum  x16 

From Supernova to Black Hole (smoothly)

195 [0:10] [0:20] [0:30] [0:40] [0:50]

Vlc. 1 *ffff* slow gliss. *p*

Vlc. 2 *ffff* slow gliss. *p*

Vlc. 3 *ffff* slow gliss. legato - bow as necessary *sul tasto* *p*

Cb. 1 *ffff* slow gliss. *p*

Cb. 2 *ffff* slow gliss. legato - bow as necessary *p*

Tim. 1 (highest pitch possible) 25" (highest pitch possible) 21" *ffff* slow gliss. *p*

Tim. 2 (highest pitch possible) 23" (highest pitch possible) *ffff* slow gliss. *p*

B. Dr. *ffff*

Collapse

[1:00]

[1:10]

[1:20]

[1:30]

[1:40]

[1:50]

Vlc. 1

rapid pizzicato (two fingers +) - - - - -

Vlc. 2

rapid pizzicato (two fingers +) - - - - -

Vlc. 3

rapid pizzicato (two fingers +) - - - - -

Cb. 1

rapid pizzicato (two fingers +) - - - - -

Cb. 2

rapid pizzicato (two fingers +) - - - - -

Timp. 1

bass drum

Timp. 2

*pp**pp**n*