

Joshua Marquez

Cold Star

(2013)

I. Proto

II. Equilibrium

III. White Dwarf

for string quartet

8'

score

## I. Proto

The life of a star begins when gravity collects the clumps of hydrogen gas and dust from a nebula cloud and forms the clumps into smaller clouds. These clouds begin hundreds of degrees below 0 degrees Fahrenheit. As gravity compresses the material the center heats up. Gravity then flattens the cloud out into a disc where the center heats up to 2 million degrees Fahrenheit, creating a Protostar.

## II. Equilibrium

Once the core reaches 18 million degrees Fahrenheit, nuclear fusion occurs. This fusion counteracts the force of the gravity throughout the life of the star, creating equilibrium. At this point, the star becomes a Main Sequence Star.

## III. White Dwarf

A White Dwarf Star is the final stage in the life cycle of most stars. At this stage in the life cycle, the star is very dense. Once the fuel, created by the fusion of hydrogen and then helium during the star's Main Sequence stage, runs out, the star begins compacting electrons (electron degeneracy pressure) to hold up against the force of gravity. The energy and light that shines from a White Dwarf Star comes from the accumulation of energy from the previous stages during the lifetime of the star.

### Performance Notes:

All glissandi should be smoothly started at the beginning of the note value with no vibrato during the movement between pitches.

If no vibrato indication is given, use a standard vibrato to shape the sound.

N normal; ord. used otherwise

S.P. sul ponticello

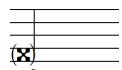
S.T. sul tasto

E.S.P. estremamente sul ponticello; as close to the bridge as possible

E.S.T. estremamente sul tasto; on the fingerboard



overpressure



scratch tone



move from one designated sound to another

## Score

## Cold Star

*for string quartet*

## I. Proto

Joshua Marquez

$\text{♩} = 60$

Violin I      S.P. —————→ S.T. —————→ S.T.

Violin II

Viola      molto vibrato

Cello      N —————→ S.P.      I (3) —————→ II (◊)

S.P. —————→ E.S.P.      (◊)

$pp \leftarrowtail p \rightarrowtail pp$        $pp \leftarrowtail p \rightarrowtail pp$

Vln. I      5 —————→ S.P.      S.P. —————→ S.T.

Vln. II

Vla.      molto vibrato

Vc.      S.P. —————→ S.T.      E.S.P. —————→ E.S.T.      E.S.P. —————→

$pp \leftarrowtail p \rightarrowtail pp$        $pp \leftarrowtail p \rightarrowtail pp$

## Cold Star, I. Proto

8

Vln. I      S.P.       $\frac{2}{4}$        $\frac{4}{4}$        $\frac{3}{4}$        $\frac{2}{4}$

*p*      *f*

Vln. II      molto vibrato       $\frac{2}{4}$        $\frac{4}{4}$        $\frac{3}{4}$

*f*      *p*

Vla.      → E.S.P.       $\frac{2}{4}$        $\frac{4}{4}$        $\frac{3}{4}$

*pp*

Vc.      → E.S.T.       $\frac{2}{4}$        $\frac{4}{4}$        $\frac{3}{4}$

*pp*

E.S.T.      I      0      1      II

*pp*      *p*

A

Vln. I      E.S.T.      → E.S.P.      E.S.T.       $\frac{2}{4}$        $\frac{3}{4}$

*p*      *f*      *p*

Vln. II      S.T.       $\frac{2}{4}$        $\frac{3}{4}$

*p*      *f*

Vla.      → E.S.T.      molto vibrato      ord.      E.S.P.       $\frac{2}{4}$        $\frac{3}{4}$

*pp*

Vc.      → E.S.P.       $\frac{2}{4}$        $\frac{3}{4}$

*pp*

N       $\frac{2}{4}$        $\frac{3}{4}$

*pp*      *p*

# Cold Star, I. Proto

3

**B**

15

Vln. I

Vln. II

Vla.

Vc.

E.S.P. → E.S.T. → E.S.P. → molto vibrato S.T.

f p f p

E.S.P. → E.S.T. → E.S.T. → f

p p

→ E.S.T. → N → N

pp pp p

→ S.P. → molto vibrato ord. → S.P. → N → N

pp pp p

19

Vln. I

Vln. II

Vla.

Vc.

molto vibrato → S.P. → E.S.P. → ord. → p < f

f > p p f p < f

S.P. → E.S.P. → E.S.P. → p

p f p

→ S.P. → 8va - harmonic gliss. Sul D → E.S.P. → S.T.

pp p f p

→ S.P. → molto vibrato S.P. → S.T. → pp

pp f > p p > pp

## Cold Star, I. Proto

23

Vln. I      S.T. → S.P.  
 $p$  →  $f$   
 $p$  →  $f$       molto vibrato ord.

Vln. II      E.S.T.  
 $f$   
 $p$  <  $f$       molto vibrato S.T.

Vla.      E.S.P. → E.S.T. E.S.T.  
harmonic gliss.  
Sul C  
 $p$  →  $f$

Vc.      S.P.  
 $p$  →  $f$   
molto vibrato ord.  
 $p$  →  $f$  →  $p$   
 $pp$  <  $p$  >  $pp$

This section contains four staves for string instruments. 
 - Vln. I starts with a sustained note (S.T.) followed by a melodic line (S.P.). 
 - Vln. II follows with a sustained note (E.S.T.). 
 - Vla. performs a harmonic glissando (E.S.P.) across three staves. 
 - Vc. begins with a sustained note (S.P.), followed by a melodic line (molto vibrato ord.). 
 Measure 26 begins with a dynamic change and continues the patterns established in measure 23.

26

Vln. I      molto vibrato  
 $p$

Vln. II      molto vibrato  
 $p$       E.S.T.

Vla.      E.S.P.  
 $p$

Vc.      E.S.P.  
harmonic gliss.  
Sul D  
 $mfp$

This section continues the musical patterns from the previous section. 
 - Vln. I and Vln. II maintain their respective vibrato patterns. 
 - Vla. continues its harmonic glissando. 
 - Vc. begins with a dynamic change ( $mfp$ ) and continues its melodic line. 
 The section concludes with a final dynamic instruction at the end of measure 29.

## Cold Star, I. Proto

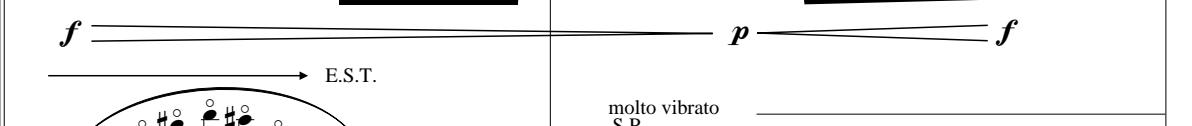
5

28 E.S.P.

Vln. I 

Vln. II 

Vla. 

Vc. 

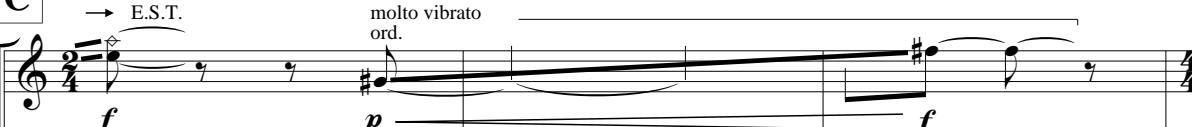
E.S.P. → E.S.T.      E.S.T. → E.S.P.

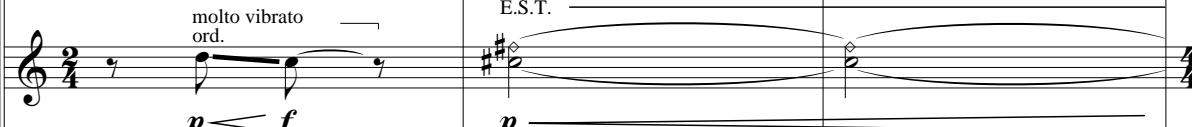
*f*      *p* → *f*

molto vibrato S.P. → E.S.T.

*f*      *p*

C

Vln. I 

Vln. II 

Vla. 

Vc. 

→ E.S.T.      molto vibrato ord. → E.S.T.

*f*      *p* → *f*

molto vibrato ord.      E.S.T. → E.S.T.

*p* → *f*      *p*

E.S.T. → E.S.T.      E.S.T. → E.S.T.

*pp* → *mp*      E.S.P. → E.S.P.

molto vibrato → molto vibrato      *p* → *p*

## Cold Star, I. Proto

33

Vln. I      S.T. —————→ S.P.

Vln. II      → E.S.P.      molto vibrato      S.T. —————→ S.P.

Vla.      → E.S.P. —————→ E.S.T.

Vc.      —————→ E.S.T.

35

Vln. I      S.P. —————→ harmonic gliss. Sul G

Vln. II      molto vibrato —————→ p

Vla.      —————→ p

Vc.      —————→ p

# Cold Star, I. Proto

7

36

Vln. I

S.T. → *f* → *p*

Vln. II

S.P. → S.T. → *f* → *pp*

Vla.

molto vibrato → S.T. → *ord.* → *f* → *p* → *f*

Vc.

S.P. → S.T. → *pp* → *f*

**D**

Vln. I

N → S.P. → *pp* → *f*

Vln. II

N → S.P. → *pp* → *f* → *pp*

Vla.

molto vibrato → N → S.P. → *p* → *pp* → *f*

Vc.

N → *pp*

## Cold Star, I. Proto

42

Vln. I      molto vibrato  
ord.  
*p* → *f*      *p*      *pp* → *mp*  
N → S.P.

Vln. II      → S.P.  
*f*      *pp* → *mp*

Vla.      N → S.P.  
*pp* → *mf*

Vc.      → S.P.  
*f*      N → S.P.  
*pp*

intense; with  
narrow, fast vibrato  
N → S.P.  
(D#)

45

Vln. I      *pp*  
N → S.P.  
(D#)

Vln. II      N → S.P.  
*pp* → *p*

Vla.      → S.P.  
*p*      *pp* → *p*  
N → S.P.

Vc.      → S.P.  
*p*

# Cold Star

## II. Equilibrium

*J = 70*

Vln. I      ord. jeté      *f*

Vln. II      ord. jeté      *f*

Vla.      S.P. ←      overpressure      → S.P.      molto vibrato      ord. *#*

Vc.      pizz.      *p*      *f*      *mp*      *p* ← *f*      arco no vibrato      III S.P.      IV

4

Vln. I

Vln. II      Normal Tone      *f*      *p*      III S.P.      IV

Vla.      molto vibrato      *p*      *f*      jeté      no vibrato      S.T.

Vc.      S.T.      *oo*      *oo*

## Cold Star, II. Equilibrium

**A**

Vln. I

Vln. II

Vla.

Vc.

short, energetic bursts  
crescendo ( $p < f$ ) each iteration  
S.P. ——————

S.P. → S.T.       $f$        $p < f$  simile      3

$p$        $p \leftarrow f$

S.P. → S.T.      S.T.      → S.P.      S.P. scratch tone

$p$        $f$        $p$

→ S.P.      molto vibrato      ord.      S.P. ← overpressure → S.P.

$p$        $p \leftarrow f \rightarrow p$        $pp$       III      IV

11

→ S.T.      N ← no vibrato      overpressure      N

Vln. I

Vln. II

Vla.

Vc.

$p$        $p < f$       jeté       $p < f$

ord.       $p < f$        $f$        $p < f$

S.P. → S.T.      S.T.      jeté       $p$

$f$        $p < f$        $p < f$        $p$

## Cold Star, II. Equilibrium

11

**B**

15

Vln. I

Vln. II: ord. jeté  $\nearrow$   $f$

Vla.: → S.P.

Vc.:  $f$  jeté  $\nearrow$   $f$

intense swells;  
very expressive  
molto vibrato

ord. jeté  $\nearrow$   $f$

no vibrato

ord.  $f$

molto vibrato

ord.  $f$

$p$

19

Vln. I:  $p$

Vln. II:  $f$

Vla.:  $f$

Vc.: no vibrato  $f$

## Cold Star, II. Equilibrium

22

Vln. I

Vln. II

Vla.

Vc.

This musical score page contains four staves for string instruments. The first staff (Vln. I) has a treble clef and consists of four horizontal lines. The second staff (Vln. II) has a treble clef and includes vertical stems on some notes. The third staff (Vla.) has a bass clef and includes vertical stems. The fourth staff (Vc.) has a bass clef and includes vertical stems. Measure 22 starts with a dynamic *f*. Measures 23-25 show various note patterns, including sustained notes and grace notes. Measure 25 ends with a dynamic *p*.

26

Vln. I

Vln. II

Vla.

Vc.

This musical score page contains four staves for string instruments. The first staff (Vln. I) has a treble clef and consists of four horizontal lines. The second staff (Vln. II) has a treble clef and includes vertical stems on some notes. The third staff (Vla.) has a bass clef and includes vertical stems. The fourth staff (Vc.) has a bass clef and includes vertical stems. Measure 26 starts with a dynamic *p*. Measures 27-29 show various note patterns, including sustained notes and grace notes. Measure 29 ends with a dynamic *p*.

## Cold Star, II. Equilibrium

13

**C**

Vln. I

Vln. II

Vla.

Vc.

Musical score for strings (Vln. I, Vln. II, Vla., Vc.) showing measures 33-44. The score is in common time. Measure 33: Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 34: Vln. II plays eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 35: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 36: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 37: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 38: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 39: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 40: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 41: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 42: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 43: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark. Measure 44: Vln. II continues eighth-note patterns. Vln. I and Vla. play sustained notes with grace marks. Vc. plays a sustained note with a grace mark.

## Cold Star, II. Equilibrium

repeat 8x

short bursts of energy beginning with  
very little space in between entrances;  
with each repetition, articulations should  
become closer and closer together without  
attacking at the same time\*

(order of entrances = vln I, vln II, vla, vc)

37

Vln. I

Vln. II

Vla.

Vc.

\* tempo:

1-2 times: each iteration = 60 bpm

3-4 times: each iteration = 72 bpm

5-6 times: each iteration = 84 bpm

7th time: each iteration = 96 bpm

8th time: each iteration = 108 bpm

# Cold Star

## III. White Dwarf

$\text{♩} = 60$

Vln. I      molto vibrato  
ord.  
 $p \swarrow f$

Vln. II

Vla.

Vc.

5      molto vibrato

Vln. I

Vln. II      molto vibrato  
N

Vla.

Vc.       $f$

short, energetic bursts  
N

$p < f$        $p < f$        $p < f$        $p \swarrow$

## Cold Star, III. White Dwarf

8

Vln. I      molto vibrato

Vln. II      E.S.P. S.P.      S.T.

Vla.      S.P.      S.P.      N

Vc.      S.P.      S.T.      molto vibrato ord.

12

Vln. I      molto vibrato S.T.      S.P.

Vln. II      N overpressure N N

Vla.      ord.      p f

Vc.      molto vibrato      f p

**A**

Cold Star, III. White Dwarf

17

17

Vln. I

Vln. II

Vla.

Vc.

*ord.*

*p*

*f*

→ *S.P.*

*ord.*

*p*

*f*

*ord.*

*p*

*N* ← *overpressure* → *N*

*molto vibrato*

*p*

*f*

B

21

Vln. I

Vln. II

Vla.

Vc.

*S.T.*

*p*

*f*

*ord.*

*S.P.*

*p*

*f*

*molto vibrato*

*N*

*S.P.*

*p*

*f*

*molto vibrato*

*p*

*p*

*f*

*p*

## Cold Star, III. White Dwarf

N ← overpressure → N

26

Vln. I

Vln. II S.T.

Vla.

Vc.

ord.      *p*      *p*      ord.      *p*      *p*

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

*p*      *f*      *p*

**C**

N ← overpressure → N

Vln. I

Vln. II

Vla.

Vc.

*f*      *p*      *f*

*f*      *p*      *f*

*f*      *p*      *f*

*f*      *p*      *f*

## Cold Star, III. White Dwarf

19

33

Vln. I

S.P.

ord.

Vln. II

p f p

p f p

S.P.

ord.

Vla.

p f p

p f p

S.P.

ord.

Vc.

p f p

p f p

37

Vln. I

S.T. E.S.T.

Vln. II

S.T. E.S.T.

Vla.

S.T. E.S.T.

Vc.