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Title

Solar Spectrum

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SOLAR SPECTRUM

FOR

ORCHESTRA

2012

V032014

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Dedicated to Claudia Penichet Calvo

...like a candle in my darkness

Instrumentation

2 Flutes in C

Oboe

English Horn

2 Clarinets in Bb

1 Bass Clarinet (if possible with low C)

2 Bassoons

1 Contra Bassoon

2 Horns in F

2 Trompets in C

1 Trombone (Tenor)

1 Bass Trombone

1 Tuba

2 Percussionist

1) Timpani (38") if possible non coated skin, Frictional Mallet (5 cm diameter)

2) 2 Cymbals different diameter, 1 China Cymbal, 1 Crotal (Ab) Gran Cassa with not coated skin,

String Section

Accidentals in the score only affects only adjacent notes except on repeated notes and ties as indicated

Non conventional symbols used in the score:

Strings:



Displace the bow from high sul tasto to the bridge with no perpendicular motion of the bow against the strings and increasing slightly the pressure at the end of the movement in order to get a rough sound.

Construction of Frictional Balls

For the construction of the frictional balls, take a toy rubber ball of 5 cm diameter aprox. and drill an small hole on the center of it, then stick a barbecue metal piece (or similar) into the rubber ball and glue it. It is recommended to have more than one for the performance in case it brakes.

For the execution, the frictional mallet should be held in the middle of the metal stick and dragged on a non coated skin drum, the expected sound should be like a whale song depending on the pressure used.

Note: not all rubber balls has the frictional quality expected so different test must be done before applying the glue. A second option is to buy some already assembled like the superball frictional mallets.



Performance Instruction

If resources are available, the piece has been designed to be performed in a combination with a light show. These lights represent the Sun lights from dusk till dawn and should be synchronized with the picks of the music. The piece starts and ends in complete darkness with changing intensities and colors through the 9 minutes of music, section C represents a cloudy episode followed by sunshine. Lights, if possible, should be projected over the audience. The last part of the piece, from section H brings the sounds of the monster of the night, represented by the frictional mallets on the Gran Cassa, and if a non coated timpani is used, also on it.

Questions:

FL. 1 *pp* *f* *>pp* *mf* *f* *p* *f* *pp* *p* *sim* *p* *mf* *>mp*

FL. 2 *pp* *p* *pp* *p*

Ob. *p* *pp* *p*

E. Hn. *pp* *pp* *p*

Bs. Cl. 1 *pp* *pp* *p* *Gliss* *pp*

Bs. Cl. 2 *pp* *pp* *p* *pp*

B. Cl. *pp* *pp* *poco* *pp* *p* *pp* *p* *pp*

Bsn. 1 *pp* *p* *pp* *p* *pp*

Bsn. 2 *pp* *p* *pp* *p* *pp*

C. Bn. *pp* *p* *pp* *p* *pp*

Hn. 1

Hn. 2

C Tpt. 1

C Tpt. 2

Tbn.

B. Tbn.

Tuba *pp* *p* *pp* *p* *pp* *p*

Timp. *pp* *p* *pp* *p* *pp* *p*

Cym. *bow* *China Cymbal* *Lv.* *f* *bowed, gestrichen* *Crotal* *Lv.* *f* *ordinario*

Crot. *f* *f*

G.G. *pp* *p* *pp* *p* *pp*

G. *pp* *p* *pp* *p* *pp*

Vln. I *pp* *p* *pp* *p* *pp*

Vln. II *pp* *p* *pp* *p* *pp*

Vla. *pp* *p* *pp* *p* *pp*

Vc. *pp* *p* *pp* *p* *pp*

Cb. *pp* *p* *pp* *p* *pp*

Reed off Helicopter sound

fixed off Helicopter sound

f Reed off Helicopter sound

Gliss

Gliss

Gliss

A

FL. 1 *p* *mf* *mf*

FL. 2

Ob. *p*

E. Hn.

B♭ Cl. 1 *p* *pp*

B♭ Cl. 2 *p* *mp* *p* *mf* *pp*

B. Cl.

Bsn. 1

Bsn. 2

C. Bn.

Hn. 1

Hn. 2

C Tpt. 1 *p*

C Tpt. 2

Tbn.

B. Tbn.

Tuba

Timp. *p* *pp* *p*

Cym
Crot
G.G.
G

A

Vln. I *pp*

Vln. II *pp*

Vla. *Div.*

Vc. *Gliss* *p* *p*

Cb. *Gliss* *p* *p* *Gliss* *p*

This page of a musical score includes the following parts and markings:

- Flutes (Fl. 1, 2):** *pp* to *p*
- Oboe (Ob.):** *pp* to *p*
- English Horn (E. Hn.):** *pp* to *p*, with *tr* (trills) indicated.
- Bass Clarinets (B. Cl. 1, 2):** *pp* to *p*, with *flutter* markings.
- Bassoon 1 (Bsn. 1):** *pp* to *p*
- Bassoon 2 (Bsn. 2):** *pp* to *p*
- Contrabassoon (C. Bn.):** *p*, with *ordinario* marking.
- Horns (Hn. 1, 2):** *p*
- Trumpets (C Tpt. 1, 2):** *pp*
- Trombones (Tbn., B. Tbn., Tuba):** *pp*
- Timpani (Timp.):** *pp*
- Percussion (Cym., Cro., G.G., G.):** *pp*, with *China Cymbal* and *Bow Cymbal* markings.
- Violins (Vln. I, II):** *mp* to *pp*, with *Glass* markings.
- Viola (Vla.):** *mp* to *pp*, with *c.s. senza vibr.* and *ordinario* markings.
- Violoncello (Vc.):** *mp* to *pp*, with *Glass* markings.
- Double Bass (Cb.):** *pp*, with *Glass* markings.

"a piacere" key noises "like soft rain"

FL. 1
FL. 2
Ob.
E. Hn.
B♭ Cl. 1
B♭ Cl. 2
B. Cl.
Bsn. 1
Bsn. 2
C. Bsn.
Hn. 1
Hn. 2
C Tpt. 1
C Tpt. 2
Tbn.
B. Tbn.
Tuba
Timp.
Cym
Crot
G. G.
G.
Vln. I
Vln. II
Vla.
Vc.
Cb.

Reed off
Helicopter sound

Reed off
Helicopter sound

Reed off
Helicopter sound

p *pp* *p*

mf *sempre*

pp *Gliss* *p*

G. Cassa
pp *p*

C **D**

FL. 1 *"a piacere" key noises "like soft rain"* *ff* *p*

FL. 2 *"a piacere" key noises "like soft rain"* *ff* *p*

Ob. *"a piacere" key noises "like soft rain"* *ff* *p*

E. Hn. *"a piacere" key noises "like soft rain"* *ff* *p*

B. Cl. 1 *"a piacere" key noises "like soft rain"* *ff* *p*

B. Cl. 2 *"a piacere" key noises "like soft rain"* *ff* *p*

B. Cl. *"a piacere" key noises "like soft rain"* *ff* *p*

Bsn. 1 *"a piacere" key noises "like soft rain"* *ff* *p*

Bsn. 2 *"a piacere" key noises "like soft rain"* *ff* *p*

C. Bn. *"a piacere" key noises "like soft rain"* *ff* *p*

Hn. 1 *"a piacere" key noises "like soft rain"* *ff* *p*

Hn. 2 *"a piacere" key noises "like soft rain"* *ff* *p*

C. Tpt. 1 *"a piacere" key noises "like soft rain"* *ff* *p*

C. Tpt. 2 *"a piacere" key noises "like soft rain"* *ff* *p*

Tbn. *Inhale air without producing pitch* *ff* *p*

B. Tbn. *Inhale air without producing pitch* *f* *p*

Tuba *"a piacere" key noises "like soft rain"* *ff* *p*

Timp. *pp*

Cym. **||**

Crot. **||**

G.G. **||**

G. **||**

Vln. I *p* *ppp < pp* *ppp < p > ppp < p >*

Vln. II *p* *ppp < pp* *ppp < p > ppp < p >*

Vla. *ppp < pp* *ppp < p > ppp < p >*

Vc. *pppp*

Cb. *pppp*

ordinario *p < >*
poco *p < >*
ordinario *p < >*
poco *p < >*

24

[E]

Fl. 1. *pp* *mf* *pp* *p* *mp* *pp* *sf* *p* *mf* *pp* *p*

Fl. 2. *mf* *pp* *ordinario* *pp* *mp* *sf* *p* *mf* *pp*

Ob. *pp* *mp* *ordinario* *pp* *sf* *p* *mf* *pp*

E. Hn. *pp* *mp* *pp* *sf* *pp*

B. Cl. 1. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

B. Cl. 2. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

B. Cl. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Bsn. 1. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Bsn. 2. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

C. Bn. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Hn. 1. *pp* *mp* *pp* *sf* *p* *mf* *pp*

Hn. 2. *pp* *mp* *pp* *sf* *p* *mf* *pp*

C. Tpt. 1. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

C. Tpt. 2. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Tbn. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

B. Tbn. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Tuba *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Timp. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Cym. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Crot. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

G.G. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

G. *ordinario* *pp* *p* *pp* *pp* *pp* *pp* *pp*

Vln. I. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Vln. II. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Vla. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Vc. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Cb. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Unis. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Unis. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Unis. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

Unis. *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp* *p* *ppp*

27 *Jet Whistle*

FL. 1 *sf p f pp mf f*

FL. 2 *mf mf pp mf >pp*

Ob. *ppp pp mf*

E. Hn. *<mf ppp*

Bs. Cl. 1 *p p mf mf*

Bs. Cl. 2 *mf mf p mf sim*

B. Cl. *mf mf mf >p*

Bsn. 1 *p mp sim*

Bsn. 2 *p mf sf p f >pp*

C. Bn.

Hn. 1

Hn. 2

C Tpt. 1 *pp p pp*

C Tpt. 2 *pp <p pp*

Tbn.

B. Tbn.

Tuba

Timp. *tr p*

Cym *Bow Cymbal*

Crot *lv.*

G.G. *mf*

G

Vln. I *pp ppp*

Vln. II *pppp < mp pppp*

Vla. *pppp < mp pppp*

Vc. *pppp < mp pppp*

Cb. *pp p pp mp >pp < mf pp < mf*

Open Harmonic Glissando Sul A

Alternate open Harmonic Glissando Sul C and sul G
IV III IV

FL. 1 $\frac{10}{4}$ f fp Jet Whistle

FL. 2 $\frac{10}{4}$ f f

Ob. $\frac{10}{4}$ f

E. Hn. $\frac{10}{4}$ f

B. Cl. 1 $\frac{10}{4}$ mf

B. Cl. 2 $\frac{10}{4}$ mf

B. Cl. $\frac{10}{4}$

Bsn. 1 $\frac{10}{4}$

Bsn. 2 $\frac{10}{4}$

C. Bn. $\frac{10}{4}$

Hn. 1 $\frac{10}{4}$ pp p

Hn. 2 $\frac{10}{4}$ pp p

C Tpt. 1 $\frac{10}{4}$ f pp p

C Tpt. 2 $\frac{10}{4}$ f pp p

Tbn. $\frac{10}{4}$ pp p

B. Tbn. $\frac{10}{4}$ pp p

Tuba $\frac{10}{4}$ pp p

Timp. $\frac{10}{4}$ tr p

Cym $\frac{10}{4}$ tr p

Crot $\frac{10}{4}$ tr p

G. G. $\frac{10}{4}$ tr p

Vln. I $\frac{10}{4}$ mp f mf

Vln. II $\frac{10}{4}$ f mf pp 3 3 3

Vla. $\frac{10}{4}$ f

Vc. $\frac{10}{4}$ f IV III IV III IV III IV III

Cb. $\frac{10}{4}$ f $a piacere$ pp

Rehearsal Mark: F

FL. 1 *ff* *pp* *sim* *pp* *sim* *p* *pp*

FL. 2 *ff* *p* *mf* *mf* *p* *p*

Ob. *ff* *mp*

E. Hn. *ff* *mp*

B. Cl. 1 *ff* *pp*

B. Cl. 2 *ff* *mp*

B. Cl. *ff* *mp* *mf* *p*

Bsn. 1 *ff* *pp* *f* *Reed off* *Helicopter sound* *f*

Bsn. 2 *ff* *pp* *f* *Reed off* *Helicopter sound* *f*

C. Bn. *ff* *pp* *f* *Reed off* *Helicopter sound* *f*

Hn. 1 *f* *pp*

Hn. 2 *f* *pp*

C. Tpt. 1 *f* *pp*

C. Tpt. 2 *f* *pp*

Tbn. *f* *pp*

B. Tbn. *f* *pp*

Tuba *f* *pp*

Timp. *f* *p* ONLY if Non Coated Skin Timpani: Drag frictional mallet "a piacere" producing a whale like sound *pp*

Cym. *f* *dim.* *p*

Crot. *f* *pp*

G.G. *f* *pp*

G. *f* *pp*

Vln. I *mf*

Vln. II *mf*

Vla. *mf*

Vc. *ff* *mp*

Cb. *ff* *pp* *a piacere* *mf*

H

This page of a musical score includes the following parts and markings:

- Flutes (Fl. 1 & 2):** Fl. 1 has a melodic line starting at measure 38 with dynamics *p*, *pp*, *pp*, *p*, *mf*, and *p*. Fl. 2 has a rhythmic accompaniment with dynamics *mp* and *pp*.
- Woodwinds:** Oboe (Ob.), English Horn (E. Hn.), B♭ Clarinet 1 & 2 (B♭ Cl. 1, 2), and Bass Clarinet (B. Cl.) are present but have no notation on this page.
- Brass:** Bassoon 1 & 2 (Bsn. 1, 2) have rhythmic accompaniment with dynamics *p*. Contrabassoon (C. Bn.), Horn 1 & 2 (Hn. 1, 2), Trumpet 1 & 2 (C Tpt. 1, 2), Trombone (Tbn.), Bass Trombone (B. Tbn.), and Tuba are present but have no notation.
- Percussion:** Timpani (Timp.) has a melodic line with dynamics *f* and *pp*. Cymbal (Cym), Crotales (Crot), Gong (G.G.), and Gong (G) are present but have no notation.
- Strings:** Violin I & II (Vln. I, II) have melodic lines with dynamics *p*, *f*, *pp*, and *rit.*. Viola (Vla.) has a melodic line with dynamics *pp*. Violoncello (Vc.) and Contrabass (Cb.) have rhythmic accompaniment with dynamics *pp* and *p*.