

Charged Electrons from the Solar Wind

Victor Arul

for orchestra, 2020

2 flutes
2 oboes (2nd doubling cor anglais)
2 clarinets (Bb, 2nd doubling bass)
2 bassoons

4 horns
2 trumpets (C)
3 trombones (3rd playing bass)
tuba

timpani

percussion 1 (cow bells (chromatic set), large suspended cymbal, suspended china cymbal, flexatone, whip, slide whistle, marimba, tubular bells)

percussion 2 (vibraphone, temple blocks, crotales, snare drum, suspended cymbal, whip, tubular bells)

percussion 3 (tom-toms (5), wood block, bass drum, 2 suspended cymbals (small and large))

Violin 1
Violin 2
Viola
Cello
Double Bass



The crossed notehead for the oboe indicates to play a multiphonic which produces a pitch (either the primary note or composite pitches) as close as possible to the one notated on the staff
For the flute, these indicate short, quick jet whistles.



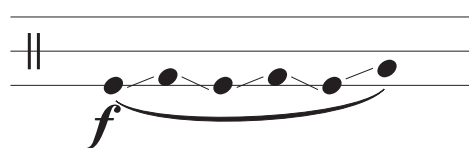
This notation represents clusters from the violins, the rectangle showing the rough range covered. Only two different clusters are used in this piece, one for the first violins and one for the second violins. The clusters contain the following pitches, which are to be distributed among the section equally. Arrows depict quarter-tone deviations (up means to sharpen, down means to flatten).



Violin 1



Violin 2



The notation for the slide whistle part is notated on three lines. The top line represents the highest pitch. The bottom line represents the lowest pitch. The middle line represents the mid-point between the highest and lower pitch,



This notation (without a trill sign) indicates for the player to employ wide, rapid vibrato.

Triangle noteheads signify the highest note on the instrument

Score in C

rit. (♩ = 33) a tempo sub. rit. (♩ = 33) a tempo sub. rit. (♩ = 33)

[illegible]

a tempo sub. rit. (♩ = 33) a tempo sub. rit. (♩ = 33) Energetic ♩ = 140

Flt. 1

p gentle

mf wild and frivolous

Flt. 2

p gentle

mf wild and frivolous

Ob. 1

f shrink into the background

mf wild and frivolous

Ob. 2

To oboe

mf wild and frivolous

Clit. (B♭) 1

f molto espressivo

f with clarity

Clit. (B♭) 2

f molto espressivo

f with clarity

Bsn. 1

p *mf*

p gentle

p *mf* dolce, in the background

mf with clarity

Bsn. 2

p *mf*

p gentle

p *mf* dolce, in the background

mf with clarity

Trpt. 1

p gentle

f towards the foreground

mf molto

Trpt. 2

ppp gentle

Trb. 1

p *f* dirty

Trb. 2

p *f* dirty

Tba.

pp dolce, in the background

Timp.

pp delicate

Perc. 1

pp *p* *pp* (gentle)

p gentle but distinct

Perc. 2

mute!

ff poking out of the texture

p gentle but distinct

Perc. 3

Tom-toms

p gentle but distinct

Vn. 1

ppp gentle

f with clarity

pizz. ord.

Vn. 2

ppp gentle

f with clarity

pizz. ord.

Va.

pp *p* (dolce, in the background)

pp *p*

f with clarity

Vcl.

pp *p* (dolce, in the background)

pp *p*

D.B.

pp dolce, in the background

11

Flt. 1

flz. *mf* wild and frivolous

ord. *f* with clarity

p sweetly

fff aggressive

Flt. 2

flz. *mf* wild and frivolous

ord. *p* sweetly

fff aggressive

Ob. 1

f with clarity

mf static

Ob. 2

mf wild and frivolous

mf static

Clit. (B♭) 1

mf wild and frivolous

Clit. (B♭) 2

mf wild and frivolous

Bsn. 1

f

p wild and frivolous

Bsn. 2

f

p wild and frivolous

Hn. (F) 1

fpp shocking

Hn. (F) 2

fpp shocking

Hn. (F) 3

fpp shocking

Timp.

Strike crotchet pulses, gliss pitches freely to destination *gliss.*

mf dying away

Perc. 1

Suspended cymbal

f with energy

mute!

choke

China cymbal

Perc. 2

f

ff emphatically

Vibraphone Pedal on

mf static

Pedal off

Pedal on

Perc. 3

f

ff emphatically

Wood block

mf with clarity

Bass Drum

fff surprising

Vn. 1

(pizz.) *p* gentle

f sharp

Vn. 2

(pizz.) *p* gentle

f sharp

Va.

(pizz.) *p* gentle

Vcl.

pizz. *p* gentle

D.B.

p static

21

Flt. 1 *f* aggressive *ff*

Flt. 2 *f* aggressive *ff* To Piccolo

Ob. 1 *p* pathetically die away *ppp*

Ob. 2 *p* pathetically die away *ppp*

Clit. (Bb) 1 *ppp* static, quasi imperceptible attack *f* aggressive *ff*

Clit. (Bb) 2 *ppp* static, quasi imperceptible attack To Bass clarinet

Hn. (F) 1

Hn. (F) 3

Trpt. 1 *p* *f* senza sord wild and frivolous *p*

Trpt. 2 *p* *f* senza sord. wild and frivolous *p*

Trb. 1 *p* *f* ord. wild and frivolous *p*

Trb. 2 *p* *f* ord. wild and frivolous *p*

Timp. *gliss.* *p* *mutel*

Perc. 1 *mutel* *ff* to the fore Flexatone

Vn. 1 *f* aggressive *ff* *gliss.*

Vn. 2 *f* aggressive *ff* *gliss.*

Va. *f* static arco, col legno battuto *f* aggressive *<* ord.

Va. *f* static arco, col legno battuto *f* aggressive *<* ord.

Vcl. *f* aggressive *<* arco.

D.B.

[illegible]

[illegible]

42

Flt. 1

flz. \flat

mf wild and frivolous

ff

ord.

mf *f*

Flt. 2 (Picc.)

Ob. 1

mf *p* *ff*

wild and frivolous

Ob. 2

mf *p* *ff*

wild and frivolous

Clf. (B \flat) 1

mf *p* *ff*

wild and frivolous

Clf. 2 (B. Clf.)

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

p *p*

Trb. 1

wide, rapid vibrato

p wild and frivolous *f*

Trb. 2

wide, rapid vibrato

p wild and frivolous *f*

Va.

mf *mf* *f*

Vcl.

mf *f*

47

Flt. 1 *mf* *mf* *f* *mf* *mf* <

Flt. 2 (Picc.) *mf* *f* *mf*

Ob. 1 *mf*

Clit. (B♭) 1 *mf* *f* *mf*

Clit. 2 (B. Clit.) To regular clarinet

Bsn. 1

Bsn. 2

Hn. (F) 1 *fff* sharp

Hn. (F) 2 *p* *fff* sharp

Hn. (F) 3 *fff* sharp

Hn. (F) 4 *fff* sharp

Trpt. 1 *fff* sharp

Trpt. 2 *fff* sharp

Trb. 1 *fff* sharp

Trb. 2 *fff* sharp

B. Trb. *fff* sharp

Tba. *fff* sharp

Timp. Strike crotchet pulses
Gliss. pitches freely to destination *p* *gliss.* *ff*

Perc. 1 Whip *fff*

Perc. 2 Snare drum *fffp*

Perc. 3 Bass drum *fff*

Vn. 1 *mf* robotically *mf* robotically

Vn. 2 *mf* robotically

Va. *mf* *mf* *f* *mf* *mf* <

Vcl. *mf* *mf* *f* *mf* *mf*

D.B. *f* strong

56

Flt. 1

mf

Flt. 2 (Picc.)

Ob. 1

mf

Ob. 2

Clf. (B \flat) 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Perc. 1

Perc. 2

*fff**p*

Perc. 3

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

fp aggressive *fp* *fp* *fp*

fp aggressive *fp*

fp aggressive *fp*

fp aggressive *fp*

mf wild and frivolous *p*

mf wild and frivolous *p*

mf wild and frivolous *p*

p wild and frivolous *mf*

mf *p* <

mf *p*

pp underneath the texture

62

Flt. 1 *fp fp fp fp* *p energetic*

Flt. 2 (Picc.) *fp fp* *p energetic*

Ob. 1 *fp fp* *p f static*

Ob. 2 *fp* *p f static*

Clt. (Bb) 1 *p f static*

Clt. (Bb) 2 *p f static* Standard Clarinet

Hn. (F) 1 *mf fff sharp*

Hn. (F) 2 *mf fff sharp*

Hn. (F) 3 *mf fff sharp*

Hn. (F) 4 *p mf p fff sharp*

Trpt. 1 *f p f p f*

Trpt. 2 *con sord. (straight) p f p f*

Trb. 1 *mf fff sharp*

Trb. 2 *mf fff sharp*

B. Trb. *mf sharp* *mf growing*

Tbo. *mf sharp* *mf growing*

Perc. 2 *p* Large suspended cymbal

Perc. 3 *p* Large suspended cymbal

Solo

Vn. 1 *p*

gli altri div. *p*

Vn. 2 *5*

Vcl. *mf robotic*

D.B. *mf robotic*

Meditative ♩ = 50

E

To flute

Slide whistle
proportional notation, unmetred solo

mute!

f molto espressivo

simile.

highest note possible (without harmonic)

ppp

p

pp

col legno tratto traverso tremolo

mf

fff

73

Flt. 1 *gliss.*
pp

Flt. 2 *gliss.*
pp

Clit. (B \flat) 1 *gliss.*
pp

Clit. (B \flat) 2 *gliss.*
pp

Bsn. 1 *gliss.*
pp

Bsn. 2 *gliss.*
pp

Trpt. 1 *plunger*
p

Trpt. 2 *plunger*
p

Perc. 1

Vn. 1

Vn. 2

Va. *repeat ad lib., but spaced out*
pizz.
p

Vcl. *repeat ad lib., but spaced out*
pizz.
p

D.B. *repeat ad lib., but spaced out*
pizz.
p

=

78 **F**

Flt. 1 *f* *ff*

Flt. 2 *f* *ff*

Ob. 1 *f* *ff* *f* *ff*

Ob. 2 *f* *ff* *f* *ff*

Trpt. 1 *mf*

Trpt. 2 *mf*

Perc. 1

non div.
gliss. freely downwards, players do not need to be synchronised in descent
arco.

98

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Clf. (Bb) 1

Clf. (Bb) 2

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Timp.

Vn. 1

pizz. with random rhythms within the bar

Vn. 2

pizz. with random rhythms within the bar

[illegible]

[illegible]

107 $\text{♩} = 140$

Flt. 1 *fff* 10

Flt. 2 *fff* 5 To piccolo

Ob. 1 *fff* 10 *timbral trill *f*

Ob. 2 *fff* 5 *timbral trill *f*

Clit. (Bs) 1 *fff* 10

Clit. (Bs) 2 *fff* 5

Bsn. 1

Bsn. 2

Hn. (F) 1 *fp*

Hn. (F) 2 *fp*

Hn. (F) 3 *fp*

Trb. 1 *fp*

Trb. 2 *fp*

B. Trb. *fp*

Tba. *fp*

Perc. 1 Flexatone *fff* To Marimba

Perc. 2

Perc. 3 Bass drum *f* *ff*

Vn. 1 *mf* *mf* *f*

Vn. 2 *mf* arco *mf*

Va. *mf* *f* *mf*

Vcl. *mf* *f* *mf*

111 112 113 114

Flt. 1

Flt. 2 (Picc.)

Ob. 1

Ob. 2

Clf. (Bb) 1

Clf. (Bb) 2

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Trb. 1

Trb. 2

B. Trb.

Tba.

Timp.

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

*timbral trill

tr

mf

f

fp

fff

gliss. freely downwards

gliss.

ppp

Marimba

pizz. ord.

f with clarity

115 H ♩ = 140

Flt. 1 *mf*

Flt. 2 To regular flute

Ob. 1 *mf*

Ob. 2 *mf*

Clt. (Bb) 2 To standard clarinet

Hn. (F) 1 *f*

Hn. (F) 2 *f*

Hn. (F) 3 *f*

Trb. 1 *fp*

Trb. 2 *fp*

B. Trb. *fp*

Tba. *fp*

Vn. 1

Vn. 2

Va. *mf*

Vcl. *mf*

123

Ob. 1 *ff*

Ob. 2 *ff*

Clt. (Bb) 1 *mf*

Clt. (Bb) 2 *mf*

Vn. 1

Vn. 2

This page contains measures 127 through 130 of a musical score. The instrumentation includes:

- Flutes:** Flt. 1 and Flt. 2
- Oboes:** Ob. 1 and Ob. 2
- Clarinets:** Clt. (Bb) 1 and Clt. (Bb) 2
- Bassoons:** Bsn. 1 and Bsn. 2
- Horns:** Hn. (F) 1, Hn. (F) 2, Hn. (F) 3, and Hn. (F) 4
- Trumpets:** Trb. 1 and Trb. 2
- Trombone/Tuba:** B. Trb. and Tba.
- Percussion:** Perc. 1 and Perc. 2
- Strings:** Vn. 1, Vn. 2, Va., Vcl., and D.B.

The score shows various musical notations such as dynamics (*f*, *mf*, *ff*), articulation marks (*tr*), and performance instructions like "Whip". The key signature has one flat, and the time signature is common time (C).

131

Ob. 1

Ob. 2

Clt. (Bb) 1

Clt. (Bb) 2

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

136

Flt. 1

Ob. 1

Ob. 2

Clit. (B♭) 1

Clit. (B♭) 2

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

ord.
mf
flz.
f brutal

Trb. 2

ord.
mf
flz.
f brutal

B. Trb.

ord.
mf
flz.
f brutal

Tbo.

ord.
mf
flz.
f brutal

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

141

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Clit. (Bb) 1

Clit. (Bb) 2

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

146

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Clf. (Bb) 1

Clf. (Bb) 2

Bsn. 1

Bsn. 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

151

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Cl. (B \flat) 1

Cl. (B \flat) 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Trpt. 1

Trpt. 2

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

156

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Cl. (Bb) 1

Cl. (Bb) 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Perc. 1

Perc. 2

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

ord.

flz.

mf

f brutal

f

fp

3

6

5

3

164

Flt. 1 *ff* *f*

Flt. 2 *ff*

Ob. 1 *ff* *f*

Ob. 2 *ff* *f*

Clit. (B \flat) 1 *ff* *f*

Clit. (B \flat) 2 *ff* *f*

Hn. (F) 1 *f* *fp*

Hn. (F) 2 *f* *fp*

Hn. (F) 3 *f* *fp*

Hn. (F) 4

Trb. 1

Trb. 2 *mf* growing

B. Trb. *mf* growing

Tba. *mf* growing

Perc. 1 *p*

Perc. 2 *p*

Vn. 1

Vn. 2

Va.

Vcl.

D.B. *sff*

sul pont.

Large suspended cymbal

Large suspended cymbal

[illegible]

174

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Clit. (Bb) 1

Clit. (Bb) 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trpt. 1

Trpt. 2

Trb. 1

Trb. 2

B. Trb.

Tba.

Timp.

D.B.

182

Flt. 1

Flt. 2

Ob. 1

Ob. 2

Cl. (Bb) 1

Cl. (Bb) 2

Hn. (F) 1

Hn. (F) 2

Hn. (F) 3

Hn. (F) 4

Trb. 1

Trb. 2

B. Trb.

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Vn. 1

Vn. 2

Va.

Vcl.

D.B.

33

190

Flt. 1

repeat ad lib.

p pathetically

Flt. 2

repeat ad lib.

p pathetically

Ob. 1

repeat ad lib.

p pathetically

Ob. 2

repeat ad lib.

semitone

p

Clf. (Bb) 1

repeat ad lib.

p

Clf. (Bb) 2

repeat ad lib.

p

Timp.

Vn. 1

gliss upwards to morph into highest note

gliss.

gliss.

gliss upwards

f

molto sul pont.

Vn. 2

gliss upwards to morph into highest note

gliss.

gliss.

gliss upwards

f

molto sul pont.

Va.

gliss upwards to morph into highest note

gliss.

gliss.

gliss upwards

f

molto sul pont.

Vcl.

gliss upwards to morph into highest note

gliss.

gliss.

gliss upwards

f

molto sul pont.

D.B.

gliss upwards to morph into highest note

gliss.

gliss.

gliss upwards

f

molto sul pont.

semitone

gliss.

