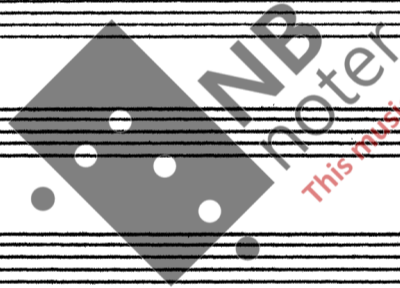


Microtonal Structures

*For
Chamberorchestra*

Verk 135 (1970)

Bjørn Fongaard.



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- (1)
- (2)
- (3)

Orchestra.

Microintervallgitar, Organ, Percussion, Violine, Viola, and Vc. Cello.

Ad the notation.

For the quartertones there is used the signs: $\sharp b \flat$ and $\# b \flat$ for respective $\frac{1}{4}$ -tone and $\frac{1}{4}$ -tone higher, lower, and neutral.

The formal measurement is decadic, measured in seconds pr. metric units; and duration of tones as the rhythm, are to be as approximative as possible.

The composition may also be played partiell, where the order of movements number are fri, except for the 1. and the 10. movement.

Total durat. $\approx 26'$

Metron. ≈ 2 sec.

($\approx 430'$)

Org. $\sharp b \flat$ Approxim. tone durat.

Poco a poco vibr. intensity from 10" to 20"

pp

poco a poco faster vibr. frekv. Cres.

Maxim. vibr. frekv.

Gradually less vibr. intensity.

Non vibr. mp

pp

Horn Otapason 8"

mp

pp (subito)

Org.

Cres.

Cres.

p

pp

(4)
(5)
(6)

Org.

mp

pp

poco a poco cres.

Fl. 4

ms

dim.

pp

VI.

pp pizz. *traspont.*

poco a poco cres.

ms

dim.

pp

Vla.

pp pizz. *traspont.*

ms

dim.

pp

Approxim. rhythm.
sul 1.2.3. & 4. corde

Org.

2 Tam
Tam

pp

pp

ms

pp

VI.

pp *poncic. trem.*

Cres.

gliss.

non trem.

pp *con sord. trem.*

Vla.

pp *poncic. trem.*

Cres.

gliss.

non trem.

pp *con sord. trem.*

Vlc.

pp *poncic. trem.*

Cres.

non trem.

pp *con sord. trem.*

2 Tam
Tam

Edge

p

pp

Cal.

p

ppp

VI.

Cal.

Vla.

Cal.

Vlc.

Cal.

(7)(10)
(8)(11)
(9)(12)

Metr. U. = 1 sec. (Approxim. rhythm) (≈ 140')

Micra g.
Cape

3 Cr. 3.
3 Cymb.
2 Tam-e

Cy. 3

Cy. 1 Cy. 2

Cy. 2

p poco a poco Cres.

14

Cy. 1

Cy. 3

Cy. 2

Cr. 3-1

Cr. 3-2-1

Cy. 3

15

Cy. 1

Cy. 3

Cy. 2

Tam-e. 1

mf

16

Tam-e. 2

Cr. 3-1-1

Cr. 2-1-1

Cr. 3

Tam-e. 2-1

mf dim

17

Tam-e. 2

Cy. 1

Cy. 3

Cy. 2

Cr. 2-1-3

Tam-e. 2.

p

18

Cr. 3.

Cr. 1.

Cr. 2.

pp

(13)
(14)
(15)

Metr. U. \approx 1/sec. (Approxim. rhythm and sonoduration.) (\approx 132')

Org. Fl. 4/2, 2', Quint 2 3/4'

3 Cym.
3 Cym.
2 T-c.

VI. Arpegg. (rolling) on all the four strings, transparent. (If possible, with contact microphone)

Vla. Arpegg. (rolling) on all the four strings, transparent. (If possible, with contact microphone)

24 25 26

27 28 29

(16)
(17)
(18)

IV

(≈ 155')

Longitudinal base technique
on the microinterval-guitar.

Metr. U. = 3 sec.

Micro-guitar

30 31 32 33

(mp-5)

V

(≈ 245')

Metr. U. ≈ 2 sec. (Approxim. conedurat.)

Org.

VI.

Vla.

Vlc.

Fl. 4'

Flautando non trem.
mp

5pp trem. pontic.

5pp

mp

p

mp

p

5p

5pp trem. pontic.

5pp trem. pontic.

5pp trem. pontic.

5pp trem. pontic.

p

5p

5p

Org.

VI.

Vla.

Vlc.

Fl. 4' and 2' percuss.

5 (vibr.)

Arpegg. rolling, transparent.

Arpegg. rolling, transparent.

Arpegg. rolling, transparent.

Cluster (Strings)

p

mf

Gliss.

Flautando non trem.
mp

Gliss.

Flautando non trem.
mp

(sul G) non trem.

Gliss.

p

5

p

5

p

5

p

5

37

Micc. tape. (Metallic sustaining points)

Perc. *pp poco a poco cres.*

VI. *pp Pombic. trem. Cres. Gliss.*

Vla. *pp Pombic. trem. Cres. Gliss.*

Vlc. *pp Pombic. trem. Cres. Gliss.*

Cymb. mp

Tam-t. p

Cres. p

38

Micc. tape

Org. *Oboe 8'* *Clar. 8'* *Oboe 8'* *Corno 8'*

Perc. *Cymb.* *Tam-t.* *Cy.* *Tam-t.*

VI. *pp Transport. trem. sul 1. 2. 3. & 4. corde.*

Vla. *pp Transport. trem. sul 1. 2. 3. & 4. corde.*

Vlc. *pp Transport. trem. sul 1. 2. 3. & 4. corde.*

Cymb. mp

Tam-t. p

Cy. p

Tam-t. p

39

Perc. *Cy.* *Tam-t.*

VI.

Vla.

Cy. p

Tam-t. pp

Tam-t. pp

(22)(25)
(23)
(24)

VI

① Metr. U. ≈ 2 sec.

(≈ 2^{tes})

Micr. g. tape
gitar tape
mf

② Metr. U. ≈ 1 sec.

Micr. g. tape

Org.

Vi.

Fl. 2, Diapason 15'

Flautando

Percuss.

Gliss.

mf

p

③ Metr. U. ≈ 3 sec.

Micr. g. tape

Org.

Perc.

Vi.

Vla.

Vlc.

Approxim. rhythm.

Tam-b.

Cy.

Tam-b.

Sul 1, 2, 3, & 4. corde

pp pizz. Transpant.

mf

mf-s

④ Metr. U. ≈ 2 sec.

Micr. g. tape

Org.

Perc.

mp sempre cres. ad sf

Fl. 2, Diapason 15', Percuss.

mp sempre cres

Diapason 8', percuss.

mp sempre Cres.

trém.

mf

(26)(29)
(27)(30)
(28)(31)

Metr. U. $\approx 1/2$ sec. (Approx. rhythm) ($\approx 205'$)

Mtr. g. Exp.

Perc.

Cy. (Edge) Cr. (P-5) Cy. Cr. Cy.

p pp p pp mp

19 50

(Edge) Tam-t. Cr. Cy.

mf p mp mf

51

Tam-t. Cr. Cy. Cr.

mf mp p mp

52

Cy. Tam-t. Cr.

pp mp p mp mf Tam-t. mf p

53 54

Cr. Cy. Tam-t. Cr.

pp p mp p pp p

55

p pp

(32)(35)
(33)
(34)

VIII

(≈ 24')

Metric U. ≈ 1/4 sec.

Micr. tape. (mp-f) 56 57

Org. [Fl. 2' & 4'] mp mp mp mp

Perc. Tam-t. mf mf Cr. mf Cr. mf

58 59

Clar. B¹

Cy. mf mf

60 61

[Fl. 2' & 4'] sp sp f p mp p

[Clar. B¹] sp sp sp f p mf p

Tam-t. mf mf Cr. mf Tam-t. mp

62 63

Cy. mf mp p

IX

($\approx 2'5''$)

Pizz. on the microin-
cervallguitar.

Metr. u. = 8 sec.

Micr. 9.6ap

① p-g ② pp-ms ③ pp-p ④ pp-ms ⑤ pp-mp



X

($\approx 4'5''$)

Metric. u. ≈ 2 sec.

65 66 67

Org. *Strings 8', Nasard 2 1/2', Fl. 2'* Sempre arpegg. *Cuscer*
pp

Horn Diapason 8' Dulcan 8'
mp

Perc. Tam-t. Erem. 6' (edge)
pp

Vi. 1. & 2. corde, col arco, transpont.
pp

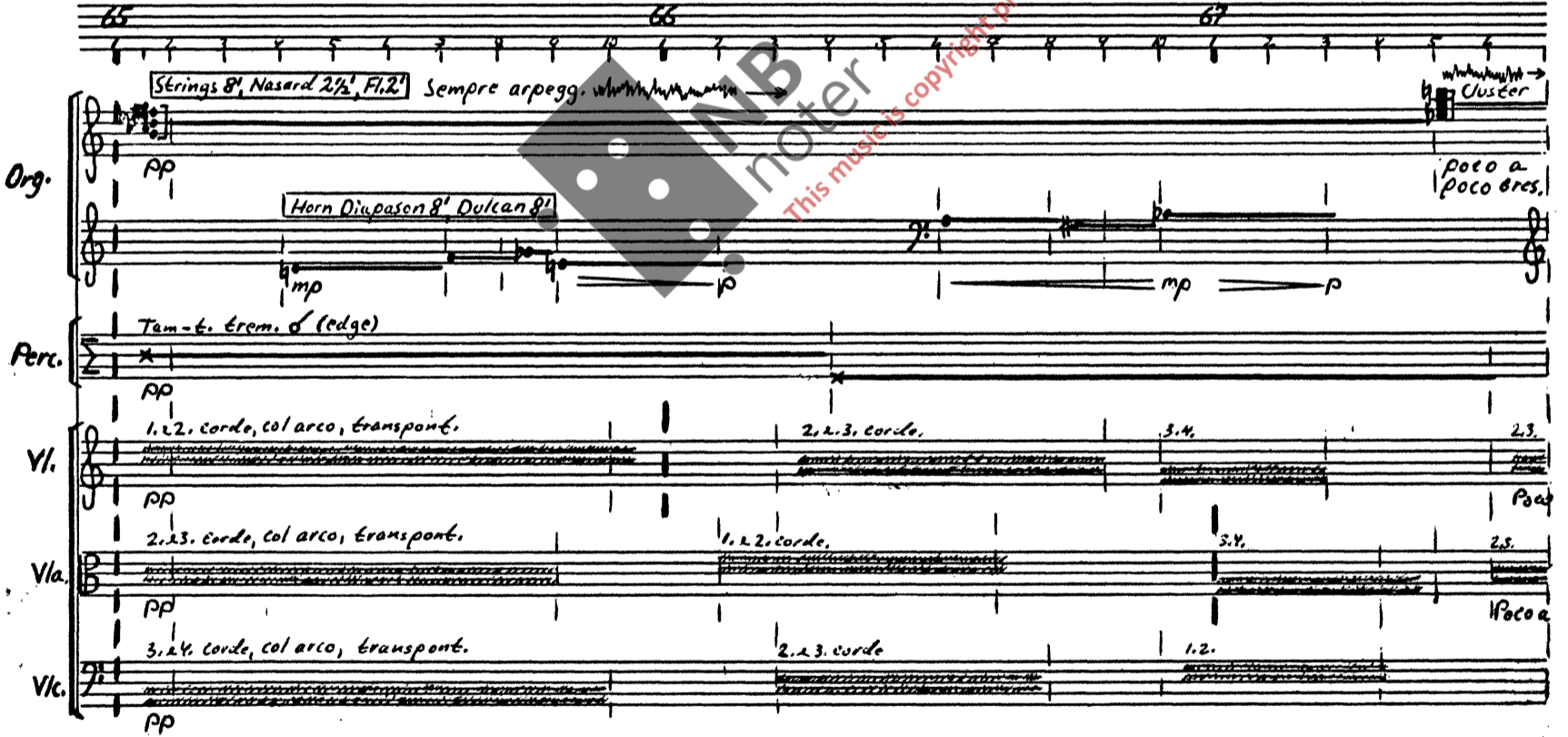
Vla. 2. & 3. corde, col arco, transpont.
pp

Vcl. 3. & 4. corde, col arco, transpont.
pp

2. & 3. corde. 3. & 4. 2. & 3. 1. & 2. corde. 3. & 4. 2. & 3. 1. & 2. 1. & 2.

mp p

poco a poco cres.



7 9 9 10 68 2 3 4 5 6 7 8 9 10 69 2 3 4 5 6 7 8 9 10 70 2

Org. *Cy. trem.*
poco a poco cres.

Per. *Cy. trem.*
poco a poco cres.

Vi. *p poco cres.*

Vla. *poco cres.*

Vlc. *Poco a poco cres.*

Micr. g-tape

Org. *poco a poco cres.*

Per. *Tam-t. trem.*
poco a poco cres.

Vi. *poco a poco cres.*

Vla. *poco a poco cres.*

Vlc. *poco a poco cres.*

pp-mf *Sempre cres.*

mf *Sempre cres.*

mf *Sempre cres.*

mf *Sempre cres.*

mf *Sempre cres.*

mf *Sempre cres.*

(40)
(41)
(42)

Musical score for measures 73-75. Instruments: Vcl. Cap., Org., Perc., Vl., Vla., Vlc.

Measures 73-75 are marked with *dim.* (diminuendo) in the Organ, Percussion, Violin, Viola, and Violoncello parts. Percussion includes Tam-t. and Cymb. in measures 74 and 75. The Organ part features a melodic line with a *dim.* marking and a *largo* tempo change in measure 75.

Musical score for measures 76-77. Instruments: Mus. g. tape, Org., Perc., Vl., Vla., Vlc.

Measures 76-77 are marked with *p* (piano) and *pp* (pianissimo) dynamics. Percussion includes Tam-t., Cymb., and Cymb. trem. in measure 77. The Organ part features a melodic line with a *p* marking. The Violin, Viola, and Violoncello parts are marked with *p dim.* and *pp*.

Musical score for measures 78-79. Instruments: Mus. g. tape, Perc., Vlc.

Measures 78-79 are marked with *ppp* (pianississimo) dynamics. The Mus. g. tape part is marked with *ppp* in measure 78. The Violoncello part is marked with *ppp* in measure 79.