

Richard Barrett

Aurora

2005-2010
quarternone flugelhorn and alto trombone

performing score

Aurora

(2005-2010) for quartertone flugelhorn and alto trombone

Commissioned by the City of Liverpool as part of CONSTRUCTION
first performance: 8 February 2010, King's Place, London; Tristram Williams and Benjamin Marks (ELISION)

to James Dillon on the occasion of his 60th birthday

duration: approximately 7'30"

When **Aurora** is performed as a duo the two performers should sit facing each other.

No vibrato. Trills, tremoli and gracenotes always as fast as possible. In the flugelhorn part, the number in brackets after the "tr" indicates the valve to be used for the trill; "tr(L)" indicates a lip-trill.

The use of circular breathing is assumed wherever a continuous unbroken passage occurs. All multiphonics are "split sounds" rather than involving the voice. Tongued attacks should only be audible where marked (by a *marcato* or *staccato* articulation, etc.), thus not at all during a *legato* passage.

Quartertones: (♭)♭♭ ♭♭ ♭♭♭ ♭♭♭♭ (♭) Arrows indicate justly-intoned deviations from equal temperament, although these may, depending on context, also be approximated to the nearest quartertone. The flugelhorn quartertones are produced with a fourth valve whose tubing is half the length of that of the second valve. Valves are notated in the score as necessary, as are trombone slide positions (I-VII) and harmonics (pedal = 1).

● (above staff) = "normal" tone production;

◇ = "air sound" (extremely faint pitch sounding a major seventh lower than the played pitch - these resultants are shown as small notes);

◊ = intermediate between these (a "breathy" sound but with the "normal" pitch still audible).

○ ⊕ ⊕ = open, half-closed and closed mute (plunger or harmon).

The above indications for tone production and muting generally apply until a new one occurs, except where a (dashed) arrow indicates a gradual transition between states.

] = tongue-stop at the end of a sound

[x:] —————] = throat-flutter (x = "ch" as in "loch") for indicated duration, sometimes simultaneously with fluttertongue

Aurora exists both as a duo and (in slightly varied form) as two of the instrumental parts in *heliocentric* for ten instruments, which is itself one of the components of **CONSTRUCTION (resistance & vision part 8)** for voices, ensemble and electronics.

Thanks to Peter Evans, Ben Marks and Tristram Williams.

Aurora

14
8

$\text{♩} = 57$

absolutely without nuance

①

flugelhorn in Bb
(have plunger ready!)
mp sempre

alto trombone
(have plunger ready!)
IV sempre!
mp sempre

②

flugelhorn in Bb
(mp)

alto trombone
(mp)

③

flugelhorn in Bb
(mp)

alto trombone
(mp)

④

flugelhorn in Bb
(mp)

alto trombone
(mp)

5
flugelhorn in Bb (mp) 124
alto trombone (mp)

8:7 F, 7:6 F, 4:3 F, 10:7 F

2, 1, 23, 124

VI 1/2, 6:5 F, 1 1/2, 1 1/2, 7:5 F II

6
flugelhorn in Bb (mp) 12
alto trombone (mp)

23, 14, 124, 4, 4

5:6 F II, III 1/2, IV, V, II, IV

25
16

7
flugelhorn in Bb (plunger) 12
alto trombone (plunger)

♩ = 68

7:5 F, 6:5 F, 9:10 F

12, 12, 12

pp, f, p, pp, mf, mp, p

mf, mp, ff sub., pp, f, f, f, pp

9:7 F, 10:9 F, VI, 3, 6:5 F, 9:10 F

10
8

8
flugelhorn in Bb (plunger) f, mf, pp, mf, mp, p
alto trombone (plunger) mf, p, ff, ppp, 5

(half-valve gliss.) 9:8 F, 7:8 F

II, 1 1/2, II 1/2, V 1/2, I, IV, II 1/2, VI, IV, VI, II, III 1/2, VI 1/2, 1

9:8 F, 7:8 F, 9:8 F, 5

10
8 12
8

12
8

9

Hugelhorn in Bb (plunger)

alto trombone (plunger)

5

8:7F

4:3F

6:7F

7:5F

1234

12:11F

ppp

1

VII

4:3F

3

(with slide)

12:11F

pp

mf

mp

f

ppp

21
16

21
16

10

Hugelhorn in Bb (plunger)

alto trombone (plunger)

(sim.)

5

3

7:6F

3

5:6F

4:3F

7:6F

pp

mf

f

mp

f

ff

mf

ff

mp

pp

pp

ppp

23
16

23
16

11

Hugelhorn in Bb (plunger)

alto trombone (plunger)

brill

4

134

14 4 12

10:9F

ff

pp

mf

pp

ff

pp

f

pp

mf

mp

ff

colla parte

45
32

45
32

12

Hugelhorn in Bb (plunger)

alto trombone (plunger)

5

9:8F

9:6F

7:5F

4:5F

4:3F

9:10F

9:8F

3

4:3F

ppp

pp

f

pp

ppp

mp

39
32

39
32

41
32

flügelhorn in Bb (plunger)

alto trombone (plunger)

+sub.

sub.

8:7F 11:8F 1234

pp mf p ff mp ff

II_{1/2} V_{1/2} II_{1/2} III_{1/2} VI_{1/2} 4:5F 1/2 9:6F II

41
32

49
32

flügelhorn in Bb (plunger)

alto trombone (plunger)

7:8F 5:6F 10:9F

f dim... p mf ff

(4) trills

1234

49
32

25
16

flügelhorn in Bb (plunger)

alto trombone (plunger)

18:13F 9:7F 9:8F 34

p f mp PPP p mp pp p PPP

6:7F 3 4:3F 10:7F

p f mp PPP p mp p PPP PP mp=PP PPP

br(2)* br(L) 34

sim...

* (auxiliary notes of these trills are omitted for clarity)

25
16

11
8

flügelhorn in Bb (plunger)

alto trombone (plunger)

6:5F 6:5F 6:5F 10:13F 8:7F 9:11F

mp pp p mp p pp mp p mp PPP

5:6F 4:3F 5 4:5F 4:3F 11:9F

mp p pp mp p mp PPP

11
8

flügelhorn in Bb (plunger) ppp

alto trombone (plunger) ppp sempre

6r(4) 8:7F 3

(ppp) (non cresc.)

11
8

flügelhorn in Bb (plunger) ppp

alto trombone (plunger) ppp

9:10F 16:11F 9:8F 3 3 3 3 3

III IV¹/₂ 9:11F I III II¹/₂ IV I 13:10F VII VI¹/₂

mp pp f mp

49
32

49
32

flügelhorn in Bb (plunger) f

alto trombone (plunger) f

6:7F 9:7F 5:6F 24 1 24 1 14 12 124

mf f

IV 9:7F 5:6F -V¹/₂ sub. 9:8F 3 5:6F 10:9F VI

f mp f (mp)

37
32

* the upper pitch of each multiphonic remains the same when third valve is down.

37
32

flügelhorn in Bb (plunger) mp cresc... (cresc.) ... f

alto trombone (plunger) mp

234 24 11:9F 134 7:8F 3 5 123 1 3

6r(4) 13 123 2

(mp) 8:7F 6:5F f

13
8

** here a sequence of multiphonics with common pitches is utilized as a "utopian" counterpoint

13
8

10
8

(21)

Hugelhorn in Bb (plunger) mp pp PPP PP

alto trombone (plunger) mp PP PPP PP

7:6 F (sub!) 7:9 F 4:3 F 14:11 F 15:10 F

10
8

47
32

(22)

Hugelhorn in Bb (plunger) **fff**

alto trombone (plunger) **fff** PP (mf)

7:8 F 6(3) 9:11 F 6:5 F 8:9 F 6:5 F 12:9 F 3 3

47
32

53
32

(23)

Hugelhorn in Bb (plunger) mp PPP

alto trombone (plunger) (slide vibr.) mf mp f PPP mf PPP

5 13:10 F 13:10 F 8:7 F

II V II VII II V I III 1/2 V 1/2 etc.

53
32

10
8

(24)

Hugelhorn in Bb (plunger) **fff**

alto trombone (plunger) **fff**

put down plunger/s

10/8 $\sqrt{=81}$

(25) *f* sempre

flugelhorn in Bb (senza sord.)

alto trombone (senza sord.) *f* sempre

10/8

11/8

(26) *f*

flugelhorn in Bb

alto trombone *f*

11/8

10/8

(27) *mp* sempre

flugelhorn in Bb

alto trombone *mp* sempre

pp

*except where indicated, end each sound/phrase with a tongue-stop

10/8

11/8

(28) *mp*

flugelhorn in Bb

alto trombone *mp*

pp *mp*

(colla parte)

11 8

29

flügelhorn in Bb

mp

5:6 F

sub.

3

1234

4:5 F

5:6 F

ppsub

PPP

mp

ff

alto trombone

(mp)

5:6 F

sub.

3

3

4:5 F

5:6 F

ppsub

PPP

mp

ff

12 8

12 8

30

flügelhorn in Bb

p

sub.

6:7 F

16:15 F

(mp)

* V VI¹/₂ VI²/₂ V III¹/₂ I²/₂ II III IV VI 5:6 F II I III¹/₂ IV IV²/₂ V VI V VI V III¹/₂ V²/₂ VII IV²/₂ III IV VII VI¹/₂ IV III¹/₂ IV IV²/₂ IV²/₂ III¹/₂ VI¹/₂ V VI²/₂

alto trombone

p

sub.

(mp)

* Creating a fluid legato in this passage will typically involve glissandi between the notated slide positions (which are often not the obvious ones!). These glissandi have been omitted from the faster note-values for clarity.

12 8

31

flügelhorn in Bb

mp

9:8 F

3

3

3

19:16 F

(mf)

(VI¹/₂) III II V VII I VII VI¹/₂ IV VII 9:8 F V²/₂ VI VI¹/₂ III¹/₂ I II III I II²/₂ VI II I V III VII III V II IV VI¹/₂ V IV²/₂ II¹/₂ I²/₂ II I II I²/₂ I²/₂ III¹/₂ 18:15 F II I IV²/₂ III¹/₂ II III¹/₂ V

alto trombone

mp

(mf)

12 8

32

flügelhorn in Bb

mf

12:11 F

3

(f)

II III¹/₂ VI V IV²/₂ VI VI¹/₂ VII III¹/₂ IV V²/₂ V III 5:4 F III¹/₂ III II I²/₂ III IV III II III¹/₂ II²/₂ IV²/₂ V VI III

alto trombone

mf

(f)

12/8

(33)

flugelhorn in Bb

f

12:9F

4:5F

16:12F

19:16F

(ff)

III II IV VI V VII $\frac{1}{2}$ IV $\frac{1}{2}$ II

12:9F

13:10F

V $\frac{1}{2}$ III $\frac{1}{2}$ V III $\frac{1}{2}$

IV V V $\frac{1}{2}$ III $\frac{1}{2}$ II $\frac{1}{2}$

II III IV III $\frac{1}{2}$ IV $\frac{1}{2}$ II III II $\frac{1}{2}$ II III $\frac{1}{2}$ II III

16:12F

12-11F

II $\frac{1}{2}$ III $\frac{1}{2}$ III

alto trombone

f

(ff)

12/8

(34)

flugelhorn in Bb

ff

9:8F

8:9F

(fff)

(III $\frac{1}{2}$) III II $\frac{1}{2}$ III I $\frac{1}{2}$ III $\frac{1}{2}$ IV

V $\frac{1}{2}$ VI $\frac{1}{2}$ V $\frac{1}{2}$ IV $\frac{1}{2}$ V IV III

16:11F

4:5F

VI III $\frac{1}{2}$ VII II V $\frac{1}{2}$ II I VII III VI V

alto trombone

ff

(fff)

12/8

(35)

flugelhorn in Bb

mf

f

mp

ff

p

mf

pp

f

3

4:3F

9:8F

9:8F

9:8F

3

6:5F

(half-valve)

alto trombone

mf

f

mp

ff

p

mf

pp

f

* \pm 1 semitone

11/8

(36)

flugelhorn in Bb

mp

pp

9:7F

9:7F

12/8

4:3F

alto trombone

mp

pp

12
8

(37)

flugelhorn in Bb

alto trombone

p *mf* *p* *mp* *ppp*

(random and rapid valve activity while holding F4)

10
8

10
8

(38)

flugelhorn in Bb

alto trombone

pp *ppp*

take harmons (stems extended)

11
8

11
8

(39)

flugelhorn in Bb (harmon)

alto trombone (harmon)

f *sub.* *p* *pp* *mf*

sub.

6:7F

12
8

12
8

(40)

flugelhorn in Bb (harmon)

alto trombone (harmon)

mf *ppp* *p* *mp*

9:7F 4:5F 4:3F 9:8F 4:3F

19
16

$\text{♩} = 96$

(agitate all valves rapidly and randomly while holding E \flat)

19
16

(41)

flugelhorn in B \flat (harmon)
f pp sempre 16:13 F 4:5 F

alto trombone (harmon)
f pp sempre 10:7 F 5:6 F 6:5 F

IV

* random and rapid slide movements between II and VI while holding D \flat .

19
16

(42)

flugelhorn in B \flat (harmon)
(pp) 17:13 F 17:16 F 7:8 F

alto trombone (harmon) (pp) 3 4:5 F 3 3 3 3

43
32

43
32

(43)

flugelhorn in B \flat (harmon)
(pp) 7:8 F 5:6 F 7:6 F

alto trombone (harmon) (pp) 12:9 F 7:8 F 12:13 F

(as before)

IV

41
32

41
32

(44)

flugelhorn in B \flat (harmon)
(pp) 16:11 F 3 7:5 F

alto trombone (harmon) (pp) 6:7 F 5:6 F 4:3 F 4:3 F 5

17
16

12

17
16

23
16

flugelhorn in Bb (harmon) (pp) 16:15F 5

alto trombone (harmon) (pp) 5 15:11F 11:14F

23
16

12
8

flugelhorn in Bb (harmon) (pp) 5 8:9F 4:3F

alto trombone (harmon) (pp) 12:13F 4:3F 4:3F

12
8

flugelhorn in Bb (harmon) (pp) 16:13F 4:5F 9:11F

alto trombone (harmon) (pp) 10:7F 8:7F 9:10F