

Dániel Péter Biró

Sefirot (Emanationen)

(2015)

für großes Ensemble und Vokalensemble
for large ensemble and vocal ensemble

Partitur
Score



Sefirot (Emanationen) – Dániel Péter Biró **Texte der Komposition**

Jeremia 5:15 (auf Hebräisch):

טו הנני מביא עליכם גוי
ממרחק בית ישראל, נאם-
יהוה: גוי איתן הוא, גוי מעולם
הוא--גוי לא-תדע לשנו, ולא
תשמע מה-ידבר.

Von Martin Buber und Franz
Rosenzweig übersetzt:

"Wohlan, ich lasse über euch kommen einen Stamm aus der Ferne, Haus
Jissrael, ist SEIN Erlauten, ein urständiger Stamm ists, ein Stamm von
der Vorzeit her ists, ein Stamm, du keimst nicht seine Zunge, hörst
nicht heraus, was er redet."

Psalm 122 (Vulgate - basiert auf Einsiedeln 150):

"Jerusalem, quae aedificatur ut civitas: cujus participatio ejus in
idipsum. Illuc enim ascenderunt tribus, tribus Domini: testimonium
Israël, ad confitendum nomini Domini."

Von Martin Buber und Franz Rosenzweig übersetzt:

"Jerusalem du, auferbaut als eine Stadt, die in sich verfugt ist
zusamt, da hinauf dort die Stäbe ziehn, die Volksstäbe oh Sein, -
Bezeugung an Jissrael ists, SEINEM Namen zu danken."

Koran Surat Al-'Isra (Die Nachtreise) (auf Arabisch):



"Preis sei dem, der seinen Diener bei Nacht von der heiligen Moschee
zur fernsten Moschee, die Wir ringsum gesegnet haben, reisen ließ,
damit Wir ihm etwas von unseren Zeichen zeigen. Er ist der, der alles
hört und sieht."

Sephirot (Emanations)
Dániel Péter Biró
Performance Notes

Score is in C

Tuning:

Eighth
Tone
Lower

Eighth
Tone
Higher

Quarter
Tone
Higher

Quarter
Tone
Lower

Microtonal tuning
(31 cents lower
7th Harmonic)
-31
(7)

Voices:
IPA notation is used throughout. Latin pronunciation corresponds to Eastern European practice. Sephardic Hebrew and Egyptian Arabic pronunciation is used.

Mouth positions in Relation to consonants or vowels:

⊖ = "v"

⊖ = "eh" or "ee"

⊙ = "oo"

● = "ah"

⊖ = "m"

Ⓝ = Nasalization

Inhaled:

$f < ff$

ha - ja

Throat Tremolo:

p

h - a - -

Mouth Positions in relation to mode of production:

1

2

3

4

Extreme Throat Tremolo:

-31 (7)

mp

pp

ho -

Piano
The chord should be pressed down silently at the beginning and a stop should be placed under the sostenuto pedal and should be activated for the entire piece.
The harmonics are to be created by touching the fingers on the string with one hand while hitting the key. Most of these can be found in front of the dampers (between the dampers and the keyboard). It is advised to specify each harmonic by preparing the piano strings with colored yarn and to attach a corresponding sticker on the dampers. In this way a piece of yarn can be wrapped around the string to show the different harmonics (red for 11th, yellow for 13th etc.).

Harmonic notation: Harmonic produced on string (inside piano) – bottom stave shows string and harmonic to touch while top stave shows resulting pitch (i.e. 6 = 6th Harmonic and cent differences).

Notation for sound Production

Moving from one consonant to another:

pp

p

f s

Half consonant and half vowel:

f

mp

v - n - s -

(ə) (i) (i)

114 - **rall.** - - - - -

6 18
(+2) (-4)
p pp

8^{ub}

Red.

Clarinets

1/4 air Resulting sound should be 3/4 air (air noise) mixed with 1/4 pitch; 1/4 air would indicate the opposite (3/4 pitch mixed with 1/4 air noise).

$\text{♩} = \text{ca. } 56$ $\text{♩} = \text{ca. } 72$
(9:7) **rall.** - - - - -

48 ord. 3/4 air 1/2 air 3/4 air 1/2 air

pppp pp p pp ppp

Inhaled sound: hold specified tone but inhale:

178 inhaled

"f" < "ff"

Brass

All notes indicated with x is air only:

35 air only

"mf" pppp

Trumpets sound approximately a seventh lower than written.

Speaking (and whispering) into instrument: this should be done with mouthpiece (Trombones and Horns) and can be done without mouthpiece in the trumpets:

98 whispering through instrument

"p" ne "p" < "ff"

Horns: In m. 66 take out first slide valve (allows for air "melody"). After action in m. 72 is completed put back valve:

72

f

Plunger and stopped notes (horns): when an arrow is indicated make movement as gradual as possible:

129 plunger

ppp mf

Percussion

Cencerros are noted with octave clef (one octave higher).
Xylophone sounds an octave higher than notated.
Xylorimba is written at pitch.

ספירות (Emanations)

Written for Walter Nußbaum, The Schola Heidelberg and ensemble aisthesis

5

♩ = ca. 72

rall.

♩ = ca. 56

Cl. 1-3

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar.

D Tpt. 1

Tpt. 2

Tpt. 3

Hn. 1-2

Ct.

T. 1

T. 2

Tub. B.

Cen.

Tam.

G.

San.

Tbn. 1

Tbn. 2

B. Tbn.

Bar.

B.

air sound (without tone)

whispered throat vibrato

"subhana" = "preis sei dem"

s - ha n

b n

Musical score for "The Last Days of Pompeii" by John Neschke. The score is in 4/4 time and includes tempo markings (ca. 56, ca. 84, ca. 72) and dynamic markings (ppp, pp, p, f, ff, mf). The vocal parts include Soprano 1, Soprano 2, Tenor 1, and Tenor 2. The orchestral parts include Flute 1-3, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone, Tuba, Snare Drum, Cymbal, Gong, Triangle, and Percussion. The score includes a large section of vocal and instrumental music with lyrics in Arabic and German.

rall. ♩ = ca. 56 ♩ = ca. 62 ♩ = ca. 73 rall. ♩ = ca. 62 accel.

19

Cl. 1

Cl. 2

Cl. 3

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar.

D Tpt. 1

Tpt. 2

Tpt. 3

Hn. 1

Hn. 2

Ct.

T. 1

T. 2

Tub. B.

Cen.

Tam.

G.

San.

Tbn. 1

Tbn. 2

B. Tbn.

Bar.

B.

ord. _____

ppppp

Bowed

ppp

pp

Bowed

ppp

pp

ppp

pp

harmon mute stem in

ppp

pppp

pp

pp

p

pp

"ut civitas" = eine Stadt

u

i

a

ppp

pp

ppp

pp

ppp

pp

"ut civitas" = eine Stadt

u

i

a

pp

ppp

pp

ppp

pp

"ut civitas" = eine Stadt

i

a

i

u

hard

ppp

pp

pp

whispering into instrument

pp

n

"f"

ppp

mf

"lailan" = "nacht"

f

ff

n

pp

ff

l —————> n

♩ = ca. 98 (7:4)

♩ = ca. 60
accel. ♩ = ca. 64 ♩ = ca. 40

♩ = ca. 76 rall. ♩ = ca. 40

27

Cl. 1

Cl. 2

Cl. 3

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar.

Trp. 1-3

Hn. 1

Hn. 2

Ct.

T. 1

T. 2

Tub. B.

Cen.

Tam.

G.

San.

Tbn. 1-2

B. Tbn.

Bar.

B.

3/4 air vibrato (eighth tone)

ppp

pppp

pp

5:32

1/2 air

pp

vibrato 3/4 air 9 (+4)

pp

ppp

pp

ppp

whispered throat vibrato

mf

ppp

ε - e - ε

9 (+4) 11 (+51)

pp

5:32

o - - - i

9 (+4) 11 (+51)

pp ppp

5:32

6 (+2) 9 (+4)

8^{vb}

2nd

soft

B ♩ = ca. 56

accel.

33

Cl. 1 *3/4 air*
ppp

Cl. 2 *pp*

Cl. 3 *ppp*

S. 1

S. 2

Pno.

Xyl. *bowed*

Xylor. *pppp* *ppp* *pppp*

Mar. *pppp* *ppp* *pppp* *bowed* *ppp* *pp*

D Tpt. 1 *air only (sounding pitch = e)*
"p" *"mf"* *"p"* *"mf"* *ppp* *pppp*

Tpt. 2 *air only (sounding pitch = e)*
"p" *"f"* *"p"* *"f"* *mf* *pppp*

Tpt. 3 *air only (sounding pitch = e)*
"p" *"f"* *mf* *pppp*

Hn. 1 *5 (-14)* *7 (-31)* *5 (-14)* *5 (-14)*
pppp *ppp* *pppp* *ppp* *pppp*

Hn. 2 *5 (-14)* *7 (-31)*
pppp *ppp* *pppp*

Ct. *"ierusalem"*
pppp *ppp* *pppp*

T. 1 *i* *ε* *u* *a* *ε* *m*
pppp *ppp* *pppp*

T. 2 *pppp* *ppp* *pppp*

Tub. B. *pppp*

Cen.

Tam.

G. *soft* *pppp* *ppp*

San.

Tbn. 1 *air only* *"fff"* *air only*

Tbn. 2 *air only* *"fff"* *air only*

B. Tbn. *"fff"*

Bar.

B.

♩ = ca. 65

rall.

♩ = ca. 56

[illegible]

46 (9:7)

♩ = ca. 72

♩ = ca. 56

♩ = ca. 72 (9:7) rall.

♩ = ca. 48

Fl. 1

Fl. 2

Cl. 1

Cl. 2

Cl. 3

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar.

D Tpt. 1

Tpt. 2

Tpt. 3

Hn. 1-2

Ct.

T. 1

T. 2

Tub. B.

Cen.

Tam.

G.

San.

Tbn. 1

Tbn. 2

B. Tbn.

Bar.

B.

plunger mute

plunger mute

plunger mute

"ierusalem"

je - ru - sa - lem

"ierusalem"

i - e - u - a - ε

l m

whispering through instrument

hi "p"

whispering through instrument

hi "p"

[illegible]

**♩ = ca. 70
(7:4)**

poco rall.

♩ = ca. 56

[illegible]

59

Cl. 1

5:4♭

ord. →

1/2

air

3/4

air

1/2

air

ord.

1/2

air

ord.

pppp

<

ppp

<

p

>

pp

>

pppp

<

pp

>

pppp

Cl. 2

5:4♭

ord. →

1/2

air

3/4

air

1/2

air

ord.

1/2

air

ord.

pppp

<

ppp

<

p

>

pp

>

pppp

<

pp

>

pppp

Cl. 3

5:4♭

ord. →

1/2

air

3/4

air

1/2

air

ord.

1/2

air

ord.

pppp

<

ppp

<

p

>

pp

>

pppp

<

pp

>

pppp

S. 1

S. 2

Pno.

Xyl.

Xylor.

bowed

5:4♭

pp

Mar.

pppp

non mute without stem

hand

5:4♭

+

→

○

air only

5:4♭

+

→

○

shush-shush practice mute

3 (+2)

ppp

D Tpt. 1

pp

<

mp

air only

5:4♭

+

→

○

ppp

Tpt. 2

"mf"

<

"ff"

only

"p"

Tpt. 3

air only

"mf"

only

"p"

Hn. 1

+

pp

ppp

pp

Hn. 2

5:4♭

+

→

○

pp

pp

Ct.

"quae" = dass

5:4♭

pp

<

mp

k"e:

"aedicatur" = auferbaut

pp

5:4♭

p

T. 1

pp

ppp

5

(-14)

pp

5

(-14)

p

T. 2

pp

ppp

5

(-14)

pp

5

(-14)

p

Tub. B.

Cen.

Tam.

on edge

pp

G.

pp

San.

air only

Tbn. 1-2

"f"

air only

ppp

B. Tbn.

"f"

air only

ppp

Bar.

B.

accel. [E] ♩ = ca. 72

62

ord. 5:4 (ord.) 1/2 air

ppp p f

ord. 5 (-14) (ord.) 1/2 air

ppp p f

ord. 5:4 (ord.) 1/2 air

ppp p f

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar.

D Tpt. 1

pppp 5:4 7 (-31) Harmon mute (stem in)

sh-sh practice mute

pp

Tpt. 2

p ppp

Tpt. 3

Hn. 1

lip vib. +

ppp f

Hn. 2

lip vib. +

ppp f

Ct.

ppp

T. 1

r ppp

T. 2

r

Tub. B.

Cen.

soft

mp ppp mp ppp p ppp

Tam.

hard

mp ppp mp ppp ppp

G.

soft

p pp

San.

mp ppp mp ppp p ppp

Tbn. 1

5:4 plunger 5 mute (-14)

ppp f

Tbn. 2

5:4 plunger mute +

pp pp ppp

B. Tbn.

5:4 plunger mute +

pp p ppp mf

5:4 5 (-14)

pp p ppp

Bar.

u a i e

pp p ppp

B.

u a i e

Musical score for a symphony orchestra and vocal soloists. The score is in 2/4 time and features a variety of instruments including woodwinds, brass, strings, and percussion. The vocal parts are for Soprano 1, Soprano 2, Tenor 1, and Tenor 2. The score includes dynamic markings such as pppp, ppp, pp, mp, and f, as well as articulation marks like accents and slurs. The tempo is marked as "ca. 62 accel." and "ca. 98 (7:4)". The score is written in German and Hebrew, with the title "ut civitas" = "eine Stadt".

G

♩ = ca. 48

(3:5)

♩ = ca. 40

♩ = ca. 70 (7:4)

accel.

81

3/4 air

microtonal trill (eighth tones)

1/2 air

9 (+4)

3/4 air

ord.

3/4 air

Cl. 1

pppp

pp

ppp

ppp

pp

Cl. 2

microtonal trill (eighth tones)

1/2 air

5 (-14)

3/4 air

ppp

pppp

pp

Cl. 3

microtonal trill (eighth tones)

1/2 air

5 (-14)

3/4 air

pp

pppp

S. 1

אלֵי־כַח = "alehem" = each

pp

ppp

S. 2

אֵי־בִיָּא = "mevi" "kommen"

ppp

pp

ppp

m e vi

press down keys

Pno.

p

mp

ppp

pp

ppp

10 (-14)

9 (+4)

7 (-31)

8th

8th

Xyl.

(ts)

p

mp

mf

mf

ppp

pp

Xylor.

p

mp

mf

mf

ppp

pp

Mar.

friction stick

ppp

p

Trp. 1-3

Hn. 1

whispering through instrument

mf < f

Hn. 2

whispering through instrument

hi

mf < f

Ct.

ne

whispered

mf < f

T. 1

throat tremolo

p

mp

vi

p

hi

"mf" < "f"

T. 2

hi

יְיָיָיָ = "hineni" = "Wohlan"

"p"

"mf"

ni

Tub. B.

G.

metal brushes

Damp in middle (harmonic)

ppp < p

San.

Tbn. 1

air only

"f"

"p"

Tbn. 2

practice mute

air

vibrato

pp

ppp

B. Tbn.

solo-tone mute

7 (-31)

take out mute

pp

ppp

B.

sung

whispered

mf < f

ne

whispered יְיָיָיָ = "hineni" = "Wohlan"

mf < f

hi

[illegible]

[illegible]

[illegible]

111

Cl. 1 *ppp* *pp* *ppp* 3 (+2) ord. *pp* 18 (+4) ord. *ppp* 3/4 air

Cl. 2 *ppp* ord. *pppp* 3/4 air

Cl. 3 *pp* *pppp* 3/4 air

S. 1 בית ישראל = "bet israel" = Haus von Israel *pp* *ppp* *mf*
be - t i - s

S. 2 *p* 6 (+2) 18 (+4) *ppp*
i - ε - a

Pno. 6 (+2) 18 (+4) *p* *pp*
8^{va} l

Xyl.

Xylor.

Mar.

D Tpt. 1 pixie with plunger *ppp* *p* plunger *ppp* *f*

Tpt. 2 *p* pixie with plunger *ppp*

Tpt. 3 plunger *ppp* *f*

Hn. 1 *ppp* *pp*

Hn. 2 *ppp* *pp*

Ct. "illuc enim" = dort *pp* *mp* *p*
il - lu - c e nim

T. 1 "illuc enim" = dort *pp* *mp* *ppp*
il - lu - c e nim

T. 2 *pp* *mp* *ppp*
e - nim

Tub. B.

Cen. *mp* *pp* *p* *p* *mf* *mp* *f*

Tam. hard *pp* *p* *p* *mp* *f*

G. soft *mp* *pp* *p* *mf* *mp* *f*

San. *mp* *pp* *p* *p* *mf* *mp* *f* *f* sub. *ppp*

Tbn. 1 *ppp* *mf* *p* *f*

Tbn. 2 *ppp* whispering through instrument

B. Tbn. whispering through instrument *f* *s* *f*

Bar. *pp* *ppp* "min" = "von" *ppp* *f* *ff* *mf* *ff*
i - n m mi - n l ma - s - dī - di

B. *pp* *ppp* "min" = "von" *ff* *mf* *ff*
i - n l s

"almasdfidi" = "der Moschee"

"almasdfidi" = "der Moschee"

[illegible]

123

$\text{♩} = \text{ca. } 56$ **rall.** K $\text{♩} = \text{ca. } 48$

Cl. 1 mf

Cl. 2 mf

Cl. 3 ppp pp ff ppp pp pppp ppp

S. 1 ppp $\text{קמרהא} = \text{"mimerha"} = \text{aus der Ferne}$ f ff ppp pp pppp ppp $\text{קוי עתן} = \text{"goi etan"} = \text{ein unständiger Stamm}$ ppp go i e tan

S. 2 f ff pp pp pppp ppp $\text{קונוי} = \text{"Adonai"} = \text{Gott}$ pp me r a o a i

Pno. f ff f fff pp pp pppp ppp

Xyl. f ff f fff

Xylor. f ff f fff

Mar. pp ppp

D Tpt. 1 ppp fff

Tpt. 2 ppp fff

Tpt. 3 ppp fff

Hn. 1 ppp pp ppp

Hn. 2 pp ppp

Ct. f ff ppp mf ppp $\text{ascenderunt"} = \text{hinaufziehen}$ a sen de run t

T. 1 f ff ppp mf ppp $\text{ascenderunt"} = \text{hinaufziehen}$ a sen de

T. 2 f ff ppp mf ppp $\text{ascenderunt"} = \text{hinaufziehen}$ a sen de

Tub. B. pp p

Cen. f ff f fff

Tam. f ff f ff

San. pp

Tbn. 1 pp

Tbn. 2 pp

B. Tbn. pp

Bar. f ff me r

B. f ff ha k

[illegible]

Cl. 1 *pppp*

Cl. 2 *pppp*

Cl. 3 *pppp*

S. 1

S. 2

Pno.

Xyl.

Xylor.

Mar. 1

D Tpt. 1 speaking into instrument *pppp* shush-shush practice mute *pppp* shush-shush practice mute

Tpt. 2 without mouthpiece speaking into instrument *ppp* *f*

Tpt. 3 without mouthpiece speaking into instrument *ppp* *f*

Hn. 1 *ppp* *f*

Hn. 2 *ppp* *pp* *ppp*

Ct.

T. 1

T. 2

Tub. B. 1

Cen.

San. *mf* *f* *f* *ff*

Tbn. 1 practice mute *ppp* *f* *ff*

Tbn. 2 speaking into instrument *ppp* *f* *ff* practice mute *ppp* *pp* *ppp*

B. Tbn. speaking into instrument *ppp* *f* whispering into instrument *ppp* *fff*

Bar. *mf* *ppp* *f* *ppp* *fff*

B. *mf* *f* *mf* *ff*

"il ʔalmasjidi" = zur Moschee

"alaqsa" = von der Moschee

dʒi - di - l

i - l-ʔa - l - ma - s

1 - - - qo - sa

19

[illegible]

♩=ca. 48 rall.

inhaléd 7:6[♭] inhaléd 7:6[♭] inhaléd 7:6[♭]

Cl. 1 *"ppp"* *f* *"ppp"* *mf* *"ppp"* *mp*

Cl. 2 *"ppp"* *f* *"ppp"* *mf* *"ppp"* *mp*

Cl. 3 *"ppp"* *f* *pppp* *ppppp* *pppp* *ppppp* *pppp* *ppppp*

S. 1 *"ppp"* *f* *pp* *ppp* *"ppp"* *mf* *"ppp"* *mp*

S. 2 *pp* *ppp* *"ppp"* *mf* *pp* *ppp*

Pno. *ppp* 11 (+51) *ppp* 11 (+51) *ppp* 11 (+51)

Xyl. (8)

Xylor.

Mar. bowed *pppp* *ppp* bisbigliando 2 123 (-31) *ppp* *pppp* bowed *pppp* *ppp* bisbigliando 23 123 (-31) *ppp* *pppp*

D Tpt. 1 *ppp* *pppp* *ppp* *pppp* *ppp* *pppp* *ppp* *pppp*

Tpt. 2 air only *pp* *p*

Hn. 1 *pp* *ppp* *pp*

Hn. 2 sh-sh practice mute *ppp* *pp* *ppp*

Ct.

T. 1 *"nómini"* *pp* *ppp*

T. 2 *"nómini" = Namen* *ppp* *pp* *"nómini"* *ppp* *p*

Tub. B. *ppp* *ppp* *pppp*

Tam.

San.

Tbn. 1-2 whispering into instrument *ppp* *f*

B. Tbn. practice mute *ppp*

Bar.

B. *pppp*

a u

[illegible]

172

Cl. 1-3

inhaled

$\vee$

$"f" \rightarrow "ff"$

S. 1

S. 2

Pno.

15^{ma}

ff

f

mp

Xyl.

8^{ma}

ff

f mf

mp p

Xylor.

15^{ma}

ff

f mf

mp p

Mar.

ff f

f mf

mp p

Trp. 1-3

Trp. 1, 3: remove mouthpiece

Hn. 1

$"p"$

$"f"$

$"p"$

$"mf"$

$"pp"$

Hn. 2

$"p"$

$"f"$

$"p"$

$"mf"$

$"pp"$

$\ominus \rightarrow \bullet$

$"mp"$

$"pp"$

Ct.

$"p"$

$"mf"$

$"pp"$

m

$\ominus \rightarrow \bullet$

$"mp"$

$"pp"$

m a

T. 1

$"p"$

$"mf"$

$"pp"$

m

$\ominus \rightarrow \bullet$

$"mp"$

$"pp"$

m

T. 2

$"p"$

$"mf"$

$"pp"$

m

$\ominus \rightarrow \bullet$

$"mp"$

$"pp"$

m a

Tub. B.

hard

mf

mp p

Cen.

ff f

f mf

mp p

Tam.

ff f

f mf

mp p

San.

ff f

f mf

mp p

Tbn. 1

a3 whispering into instrument

ppp p

$"f"$

$"p"$

ppp mp

$"mf"$

$"pp"$

ppp mf

Tbn. 2

ppp p

$"f"$

$"p"$

ppp mp

$"mf"$

$"pp"$

ppp mf

B. Tbn.

ppp p

$"f"$

$"p"$

ppp mp

$"mf"$

$"pp"$

ppp mf

Bar.

$"mp"$ $"p"$

a

$"p"$ $"pp"$

a

B.

$"p"$ $"pp"$

a

מא ידבר = "ma jedaber"

= was er redet

$"p"$

$"pp"$

מא ידבר = "ma jedaber"

= was er redet

$"p"$

$"pp"$

179

Cl. 1-3

inhaled ∇ inhaled ∇ 3:2' $\neg$

"f" $\leftarrow$ "fff"

"p" $\leftarrow$ "ppp"

ma jedaber = "ma jedaber" = was er redet

S. 1

m

S. 2

m

Pno.

p

pp

ppp

Xyl.

p

pp

Xylor.

p

pp

ppp

Mar.

p

pp

ppp

D Tpt. 1

whispered into instrument

slap on moutpiece

Tpt. 2

f

Tpt. 3

r

p

f

Hn. 1-2

"mp" $\leftarrow$ "ppp"

"p" $\leftarrow$ "pp"

Ct.

"p" $\leftarrow$ "ppp"

m $\ominus$ $\rightarrow$ $\bullet$

T. 1

"p" $\leftarrow$ "ppp"

m $\ominus$ $\rightarrow$ $\bullet$

T. 2

"p" $\leftarrow$ "pp" $\leftarrow$ "mp"

m $\ominus$ $\rightarrow$ $\bullet$

Tub. B.

p

pp

ppp

Cen.

p

pp

ppp

Tam.

p

pp

G.

pp

p

San.

p

pp

ppp

Tbn. 1

air only

"mp" $\leftarrow$ "ppp"

ppp

f

"p" $\leftarrow$ "pp"

ppp

ff

Tbn. 2

air only

"mp" $\leftarrow$ "ppp"

ppp

f

"p" $\leftarrow$ "pp"

ppp

ff

B. Tbn.

air only

"mp" $\leftarrow$ "ppp"

ppp

f

"p" $\leftarrow$ "pp"

ppp

ff

Bar.

"pp" $\leftarrow$ "mp"

a

quasi spoken

pp

"ppp" $\leftarrow$ "mf"

a

quasi spoken

pp

B.

d

d