

Dániel Péter Biró

MISHPATIM 6
בהר (On the Mountain)

For Contralto, Piano, Percussion and Electronics

Partitur
Score



IMPRESSUM

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50321 Brühl
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E-Mail: info@editiongravis.de
<http://www.editiongravis.de>

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Dániel Péter Biró – *Bahar (On The Mountain)* (2012)

Premiered on Nov. 24, 2012 by Noa Frenkel, Contralto, Sven Thomas Kiebler, Piano, Olaf Tzschoppe, Percussion, Reinhold Braig, Simoon Spillner, Thomas Hummer, Electronics.

Electronics done at the Experimentalstudio in coordination with Reinhold Braig and Thomas Hummel

Performance notes

Instrumentation:

Contralto, Piano, Percussion, Electronics (3 players)

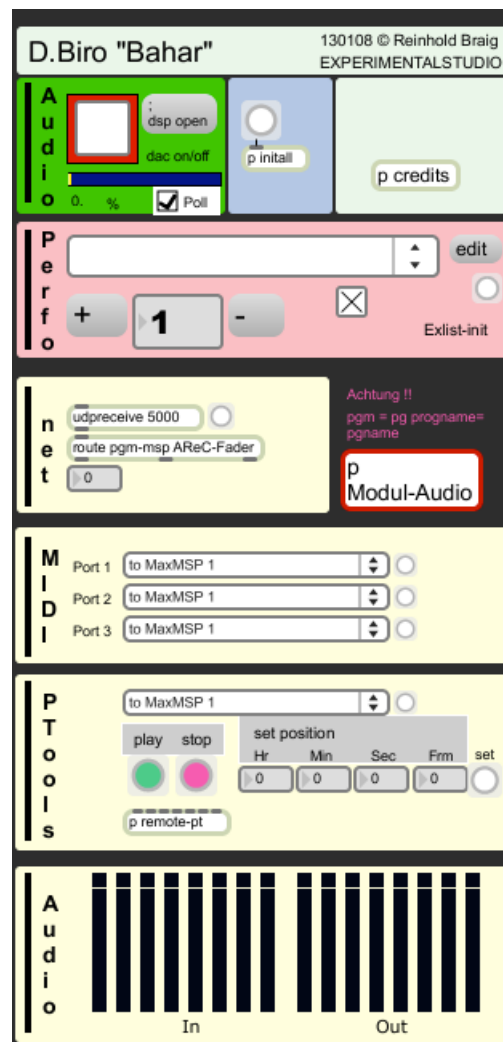
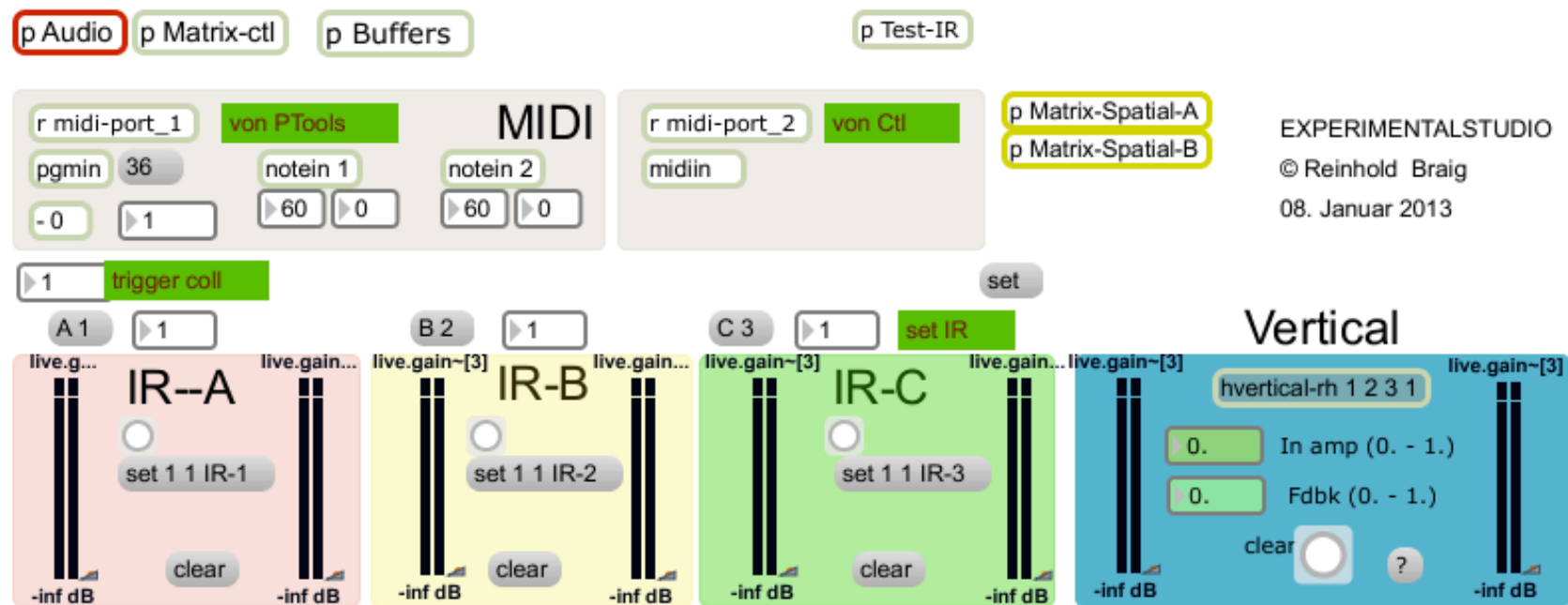
Microphones and Seating:

Contralto should sing at the centre of stage placed in front of the piano and percussion. The percussionist's voice should be lightly amplified with a headset microphone. Percussion instruments and piano should be amplified with condenser and contact microphones. Resonant gongs (A1 and E1) should hang from back speakers (A=5 and E=6) and be amplified with contact microphones.

One protocols midi file spatializes input channel 1 (contralto). One protocols midi file spatializes input channels 2 and 3 (piano and percussion). One sound director controls protocols outputs and the microphone inputs (into MAXMSP), the second sound director the gong outputs, and the third sound director controls outputs (convolution and vertical outputs).

Electronic Setup:

MAX/MSP file (bahar.pat) and Protocols file (bahar.ptf) with Midi automation required.



Microphone routing is the following:

Voice: Channel 1 (Midi control from Protools)
Percussion Voice and Instruments: Channel 2 (Midi control from protools)
Piano: Channel 3 (Midi control from protools)
Gong D2: Channel 4
Gong F2: Channel 5

Inputs and Outputs should be controlled at mixing board and via protools midi outputs.

Protools routing is the following:

Track 1: Speaker 1
Track 2: Speaker 2
Track 3: Speaker 3
Track 4: Speaker 4
Track 5: Speaker 5,6
Track 6: Speaker 7
Track 7: Click Track 1 (Contralto)
Track 8: Click Track 2 (Piano and Percussion)

18 Impulse response files are to be loaded into patch (see explanation on max patch).

Speaker Setup:

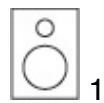
A small (if possible Genelec) loudspeaker goes into the piano. The 6 remaining loudspeakers should be placed in the room in the following manner.



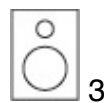
Loudspeaker 7 (in Piano)

Contralto

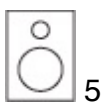
Percussion



1

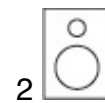


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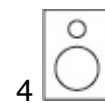


5

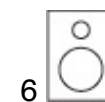
Audience



2

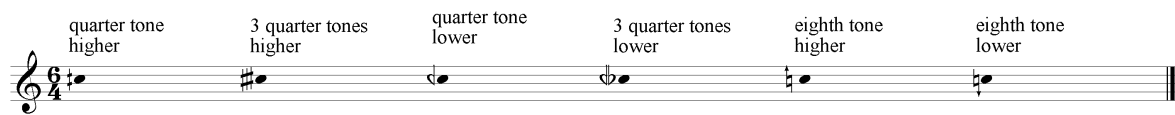


4



6

Tuning



Piano

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 yarn. 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. 7 = 7th Harmonic).

- - - - ♩ = ca. 58 **accel.** -

┌── 3:2 ──┐
batt.

64 7

mp > pp

┌── 3:2 ──┐

Ped. _____

Battuto: Pianist uses drumstick to bounce on string. This is often combined with a harmonic.

Percussion Setup (consisting of two sets of instruments) is as follows:

Percussion 1 - Setup

Tom Tom hit hit (soft) (hard damped) rubbing superball with Brushes Snare (off) hard rubbing superball with brushes hitting with side of stick and rim of drum

Percussion B G L SCH D N V(F) T

Wooden Board running palm along surface rubbing superball soft stick ribbed stick wooden stick Metal Plate running palm along surface Sandblock moving on its side Tambourine hard

3 H M P R K S CH TS

Percussion 2 - Setup

Gong 1 soft with brushes with thimble rubbing superball wooden stick Gong 2 dragging nails rubbing with superball with brushes

8 B F(V) K M T CH N SCH

Large Cowbell hard sticks brushing with hand rubbing with superball Small Cowbell hitting with superball brushing with hand with brushes Bongo soft Guero scraping

10 D H L G S TZ P R

Commissioned by the Center for Arts and Media, Karlsruhe
for the 2012 Imatronic Festival

בהר
(On The Mountain)

A

rall. 

Contralto

ויצל
whispered
mp $\triangleright$ *ppp* $\triangleright$ *pppp* $\triangleleft$ *ppp*



va - a - a - a - l - l - l - l

[illegible]

ואחרון

6:5

$p < mp$

inhaled

mp ppp

Electronics
(protocols)

whispered
mp 



va - ja -

$pp \gg ppp$ $pppp < ppp > pppp$

mp
a

Piano

7
Ped

Piano and Percussion
Spatialization
(automated)

Sound Direction 1 (Impulse Responses)

rall.

IR 01
In: Contralto
Out: LS 7

rall.

The musical score is for a piece titled "The Land of Israel" (ארץ ישראל). It is written for a vocal soloist (C.S.), a choir (C.), a piano (Pno.), and gongs. The score is in Hebrew and English. The tempo is marked "A Tempo" and the time signature is 4/4. The score is divided into three systems. The first system contains the vocal soloist's part, the choir's part, and the piano's part. The second system contains the vocal soloist's part, the choir's part, and the piano's part. The third system contains the vocal soloist's part, the choir's part, and the piano's part. The score includes various musical notations such as notes, rests, and dynamic markings. The lyrics are in Hebrew and English. The score is for a piece titled "The Land of Israel" (ארץ ישראל). It is written for a vocal soloist (C.S.), a choir (C.), a piano (Pno.), and gongs. The score is in Hebrew and English. The tempo is marked "A Tempo" and the time signature is 4/4. The score is divided into three systems. The first system contains the vocal soloist's part, the choir's part, and the piano's part. The second system contains the vocal soloist's part, the choir's part, and the piano's part. The third system contains the vocal soloist's part, the choir's part, and the piano's part. The score includes various musical notations such as notes, rests, and dynamic markings. The lyrics are in Hebrew and English.

11

B

C.S.

1871 401 = 188

espressivo *ppp* inhaled *pp*

14:10

3:2 *ppp* > *pppp* < *ppp* 3:2

C. ji - r e - e - e - e

espressivo *ppp* inhaled *pp* *pp* *ppp* (toneless) *mp*

14:10 3:4

E. va u t

Pno.+Perc. Spat.

3:4

Perc. (voice) **B** "und sie sahen" whispered *mf* *mp* *mp* *mf* 5:4 3:2 "Gott" *mp* < *mf*

und - si za - :en de - n go - tt

B.D. *ppp*

Gongs *ppp* *pp* *ppp*



rall.

17:16

14

C.S.

אלהי 1871

17:16 *ppp* > *pppp* < *ppp* *ppp* > *pppp* < *ppp* *mp* > *ppp* *ppp* > *pppp* < *ppp* *ppp* > *pppp* < *ppp*

ε - ε - ε - ε - ε l - l - lo - lo - he - he u r - r - a - a

17:16 *pp* < *p* inhaled *pp* < *mp* inhaled *mp* *ppp* *mf*

E. va ji - r l - - - - s - ε - l

Pno.

5

5:3 *mf*

Pno.+Perc. Spat.

"Israels" 5:3 3:2 *mf* *p* *mf* > *p* rall.

l - z - - - ra - e - l - z

B.D. *ppp*

4

16

C.S.

חחחח

23:16

רנלין

3:2

3:2

3:2

3:2

C.

p > *pp* < *p* *ppp* > *pppp* < *pp*

ε - ε - ε - ε l - l - lo - lo he - he

p < *mp* inhale *mp* *ppp*

r - a la - v

23:16

3:2

3:2

E.

pp < *p* *f* *ppp* > *pppp* *ppp* *ppp* > *pppp* < *ppp*

ve ta hká - hká - hká - t g - g - g - g

Pno.

3:2

3:2

pp

11

8th 1

200

9:8

Pno.+Perc.
Spat.

"whispered"

9:8

"füßen"

"im"

Perc.
(voice)

mf *mp* > *p* *mf* *mf* > *all mp* < *mf* - - - - -

tsu de - n fy: - sön i - m

B.D.

ppp *ppp*

IR 02
In: Contralto
Out: LS 7

The musical score for "IR 02" is written for a large ensemble. It begins with a tempo marking of 20 and a rehearsal mark 20. The score is divided into several systems, each containing multiple staves. The instruments and voices included are:

- C.S.
- C.
- E.
- Pno.
- Perc.+Perc. Spat.
- Perc. (voice)
- Perc. I
- B.D.
- S.D.I.
- Gongs

The score features a variety of musical elements, including complex rhythms, dynamic markings (e.g., *ppp*, *pp*, *mp*, *f*), and articulation marks. The time signature changes throughout the piece, including 5/4, 4/4, and 3/4. There are also indications of breath or phrasing, such as "inhale" and "exhale". The score concludes with a final measure marked with a double bar line and a fermata.

24

C.S.

C.

E.

Pno.

Pno.+Perc.
Spat.

Perc.
(voice)

Perc. 1

Perc. 2

B.D.

S.D.1

Gongs

וּכְעַצֵּם

חֲשֵׁמִים

לִטְחֹר

21:20[♭]

32:20[♭]

3:5[♭]

5:4[♭]

5:4[♭]

ppp

inhale

mp

p

pp

pp < mp > pp

pp < p > pp

pp < p > pp

pp < p > pp

pp > ppp < pp

pp

pp

pp < mp > pp

pp < mp > pp

pp > ppp < pp

pp

pp

pp > ppp < pp

u - χ

tse-tse-ε - ε m-m

ha

s - a

p - i - r

ta - ta - ta - o

ha - a

f - a

ma - i - m

l - a

ha - ha - ha - r

11

8[♯]-----J

200

rall.

"und wie der Kern"

3:2[♭]

mf > mp < mf

un - d vi der kern

"des Himmels"

3:2[♭]

6:4[♭]

mf < f > mp

da - s hi- m

-

a - l - s

aus"

mf

> mp

au s

mp > p < mp > ppp

rai-n har - t - t - t

3:2[♭]

6:4[♭]

mf

f

3:2[♭]

3:2[♭]

S

mp

p

ppp

ppp

IR 03

In: Contralto

Out: LS 7

13:8 19:12

34

C.S.

C.

E.

Pno.

Pno.+Perc.
Spat.

Perc.
(voice)

Perc. 1

B.D.

Gongs

אח האלוהים

17:16[♩] *p* *pp*

va - ye - h zu

6:4[♩] *pp* > *ppp* < *pp* *mf*

e - e - e - e

17:16[♩] *pp* > *ppp* < *pp* *mf*

e - e - e - e t

3:2[♩] *pp* *ppp* *pp*

ha - ha - ha - ha - ha - ha

6:4[♩] 3:5[♩] *ppp* < *pp* > *ppp* *mp*

ε - l - o hi - m

3:2[♩] 3:2[♩] Damped hard (2 fingers) *p*

3:2[♩] *mp* 7

5:4[♩] 3:2[♩] 18:12[♩]

accel. whispered "sie" "schauten" "den" spoken whispered "Gottheit" rall. spoken

7:6[♩] *mf* *pp* *mp* *f* *mp* *p* *ff*

z - ie f - au - t - a - n d - e - n gō - - -

3:2[♩] 3:2[♩] 3:2[♩] 3:2[♩] 3:2[♩] 3:2[♩]

- t h - a - t - t - t - t - t - t - t

5:4[♩] *p* *mp* *mf*

9 *ppp*

> *ppp*

37

C.S.

וִּי אֵכֶלְךָ

וִּי שָׂכְלְךָ

rall.

45

C.S.

22:16^Δ

8:6^Δ

15:12^Δ

יְהוָה

אֵל

מֹשֶׁה

עֶלְיָה

mf

p > *pp* < *p*

mp > *p*

f

mp > *pp*

p > *pp* < *p*

pp < *p* > *ppp*

mp > *pp*

f

a

d - d - n - n - ai - ai

ε

mo

f - f - f - f

ε

mo

le

mf < *f*

pp < *p* > *pp*

pp < *p* > *pp*

mf < *f*

p > *pp* < *p*

mp > *p*

mf

f

p > *pp* < *p*

pp < *p* > *pp*

va

yo

m - ε - r

a

d - d - n - n - ai - ai

ε

a

f - f - f - f

ε

16:12^Δ

16:12^Δ

11

Pno.

8^{va}

8^{va}

8^{va}

Pno.+Perc.

Spat.

16:12^Δ

5:4^Δ

rall.

"stieg zu mir"

3:2^Δ

Perc. (voice)

pp

mf

f

pp

fʃi:k

tsu

m - i - r

3:2^Δ

p <

Perc. 1

p

p <

Perc. 2

S

pp

B.D.

ppp

ppp

IR 04

In: Contralto

Out: LS 6 (A Gong)

S.D.1

Gongs

ppp

pp

50

C.S.

אלי (6/12)

חחרה

וחיה

C.

f *mf* *mf* *f* *pp* *p* *pp* *mf* *f* *p* *pp* *p*

p *pp* *pp* *f* *p* *pp* *p* *mf* *f* *f* *pp* *p*

E.

p *pp* *pp* *f* *p* *pp* *p* *mf* *f* *f* *pp* *p*

Pno.

(8).1

Pno.+Perc. Spat.

"und sei dort"

Perc. (voice)

mf *pp* *f* *p* *pp* *mp* *mf* *pp* *ppp* *mf* *rall.*

Perc. 1

Perc. 2

B.D.

Gongs

ppp

Vertical	IR 05
In: Contralto	In: Perc.
Out: LS 7 (Piano)	Out: LS 6 (E Gong)

[illegible]

[illegible]

65

C.S.

להורחם

C.

E.

Pno.

Pno.+Perc. Spat.

Perc. (voice)

rall.

"jene zu unterweisen"

Perc. 1

B.D.

E

♩ = 48

♩ = 60

C.S.

C.

E.

Pno.

Pno.+Perc. Spat.

Perc. (voice)

Perc. 1

Perc. 2

B.D.

S.D.1

Vertical In: piano Out: LS 6 (Gong E)

Close Vertical (piano)

IR 08
In: Contralto
Out: LS 5 (A Gong)

rall. 5:6

77

C.S.

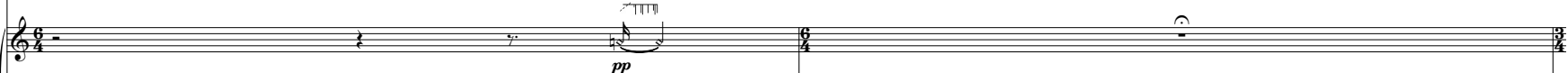


חאלחים

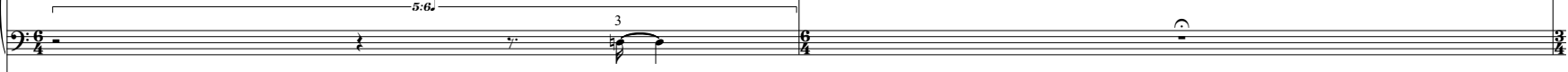


E.





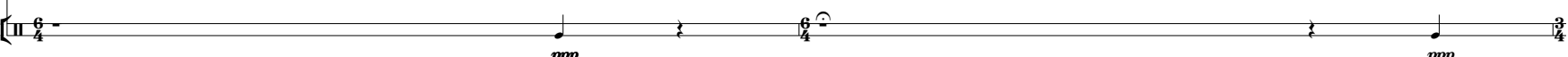
Batutto



Pno.+Perc. Spat.



rall.



rall.

79

C.S.

7A1

חזקים

11:12^Δ

4:7^Δ

4:7^Δ

13:12^Δ

3:2^Δ

mp *p* *mp* *pp* *p* *pp* *f* *inhale* *ff*

vo ε - l ha - - z k - e n - i - m

11:12^Δ

5:6^Δ

13:12^Δ

4:7^Δ

pp *ppp* *p* *ppp* *pp* *ppp* *ff* *p* *pp* *p* *pp*

a - a - a - a - a e - - o hi - m ve e - l

7:4^Δ

scraping with plectrum after touch

3

Pno.

7:6^Δ

Pno.+Perc. Spat.

F

"zu den"

7:4^Δ

3:2^Δ

"Ältesten"

7:6^Δ

7:6^Δ

5:4^Δ

p *pp* *mp* *pp* *f* *inhaled* *ff* *p* *ppp* *ff* *inhale*

t - s e - n 'ε - l - - t o - n ç - a - r - p - f

7:4^Δ

3:2^Δ

7:6^Δ

5:4^Δ

mp *pp* *mp* *p* *f* *ff* *sub.* *ppp* *p* *pp* *ff*

Perc. (voice)

Perc. 1

B.D.

ppp

82

C.S.

אמר

23:24

4:7

p *pp* *p* *pp* *ff*

ha - z k - e r

שבו

19:12

f *ff*

inhale

v u

לנו

13:12

f *ff* *f* *ff*

inhale

lan vu

E.

23:24

mp *mf* *p* *ppp* *p* *f* *ff*

inhale

a - m a - a - a - a m - i - m

3:2

19:12

mf *p*

jo

13:12

mp *pp* *ppp*

e u - u - u - u

batutto with drum stick

7

scraping string with nail

mp

batutto with drum stick

pp

Pno.

Pno.+Perc. Spat.

rall.

"aber sprach"

5:4

mf *ff*

inhale

a - b - e - r f - p - r - a - c

"er"

mp

e -

"verweilet"

3:2

mp *pp*

3:2

f *ff*

inhaled

e - r v - ai - l - o - t

rall.

"ihr uns"

3:2

pp *ff*

inhale

i - u - n - s

Perc. (voice)

Perc. 1

5:4

mf *ff* *mp* *ppp*

3:2

ppp *mp* *pp* *f* *ff*

3:2

f *ff*

B.D.

ppp *ppp* *ppp*

IR 09
In: Contralto
Out: LS 7

S.D.1

4/4 4/4 3/4 3/4

86

C.S.

C.

E.

Pno.

Pno.+Perc. Spat.

Perc. (voice)

Perc. 1

Perc. 2

B.D.

בוזח

19:12^Δ

5:6^Δ

pp

ppp

u - u - u - u - u

f

inhale

ff

19:12^Δ

la

batutto with drum stick

pp

5

8th

7:4^Δ

after touch

10

7:4^Δ

plucked with finger

10

pp

8th

3:2^Δ

after touch

3:2^Δ

scraping with plectrum

4

7

p

p

6:4^Δ

20

pp

8th

7:4^Δ

3:2^Δ

6:4^Δ

scraping with plectrum

h - i

mf

"hier"

h - i

pp

"bis"

1

mf

"wir zu"

v - i - r

ts

mf

mp

mf

3:2^Δ

3:2^Δ

3:2^Δ

6:4^Δ

mf

pp

"Euch"

20

mf

sub.

ppp

mf

p

mf

ppp

mf

p

mf

ppp

ppp

ppp

91

C.S.

אל'ים

C.

na u v

E.

a - a - a - a - a e - e - e - e - e χ - ε - m

Pno.

plucking
damped
hard

batutto with
drum stick

plucking
12

pp

batutto with
drum stick

pp

12

11

Pno.+Perc.
Spat.

accel. rall.

"kehren"

f

inhaled

ε - n

Perc.
(voice)

Perc. 1

p pp f pp mp pp

B.D.

ppp

ppp

ppp

S.D.1

IR 010
In: Perc.
Out: LS 6 (E Gong)

[illegible]

C.S.

C.

E.

Pno.

Pno.+Perc. Spat.

Perc. (voice)

Perc. 1

Perc. 2

B.D.

Gongs

[illegible]

105

C.S.

C.

E.

Pno.

Pno.+Perc.
Spat.

Perc. (voice)

"Mosche"

G

"stieg"

ε - m - p - o - r

d - e - n

Perc. 1

"Mosche"

Perc. 2

B.D.

S.D.1

Gongs

Vertical
In:
Out: LS 6 (E Gong)

[illegible]

[illegible]

IR 011
In: Perc.
Out: LS 7

124

33

C.S.

C.

סיני

הענין

13:8[♭]

15:8[♭]

ff < *fff*

ppp

pp

fff < *fff*

inhale

inhale

haa

E.

p

pp

13:8[♭]

15:8[♭]

fff

mp

p

ff

fff

pp

si

an

i

he

a -

i

Pno.

brushing across strings

(6/12)

(9/12)

(6/12)

(9/12)

brushing across strings

(6/12)

(9/12)

p

5

(6/12)

plucked and damped

f

(9/12)

mp

3

Pno.+Perc.
Spat.

Perc. (voice)

accel.

rall.

ff > *f*

mp

pp

f < *ff*

ff > *f*

mp

pp

z - i:

n - a - i

ie

h-y-l

t - a - - 'i: - n

Perc. 1

ppp < *ff*

ppp

mp

pp

f

f

ppp

ff > *f*

mp

p

Perc. 2

ppp

p

mf

pp

B.D.

3:2[♭]

3:2[♭]

3:2[♭]

3:2[♭]

p

ppp

pp

ppp

p

S.D.1

Vertical

In: Contralto

Out: LS 5 (Gong A)

Close Vertical

[illegible]

IR 013
In: Contralto
Out: LS 6

137

C.S.

C.

ppp
a

E.

p

Pno.

Pno.+Perc. Spat.

Perc. (voice)

"Das Ansehn"

I

Perc. 1

Perc. 2

B.D.

S.D.1

Vertical
In: Contralto
Out: LS 5 (E Gong)

IR 014
In: Piano
Out: LS 5 (Gong A)

Vertical	IR 015
In: Contralto	In: Contralto
Out: LS 5 (E Gong)	Out: LS 6
Fade Out	

C.S.

149

C.

9:10♭

$p > pp$

p

p

pp

p

ישראל

p

pp

p

E.

9:10♭

pp

p

pp

ppp

pp

i

c

c

pp

Pno.

3:2♭

ff

pp

11

p

b^3

5:3♭

ff

pp

5:4♭

p

8^{th}

5:4♭

p

8^{th}

5

mf

scraping with nail

ff

pp

scraping with nail

ff

pp

Pno.+Perc.
Spat.

Perc.
(voice)

5:3♭

$f < ff$

p

f

ff

5:4♭

p

mp

ppp

"der Söhne"

ppp

5:3♭

$f < ff$

p

f

ff

5:4♭

p

mp

ppp

Perc. 2

3:2♭

f

ff

p

ff

mp

ppp

5:3♭

f

ff

p

ff

mp

ppp

B.D.

7:4♭

mp

mf

ppp

7:4♭

mp

mf

ppp

S.D.1

Gongs

ppp

pp

ppp

IR 016

In: Piano

Out: LS 6

153 41

C.S.

משה

ff ff 11:12[♭] ppp

C.

ppp mf mp 11:12[♭] pp p ppp

E.

5:4[♭] scraping with nail after-touch 2

11:12[♭] 5

9:8[♭] damped and plucked 4 5

Pno.

5:4[♭] 3 3

Pno.+Perc. Spat.

"Mosche" mp 5:4[♭] rall. "kam" fff

Perc. (voice)

5:4[♭] s pp p ppp 9:8[♭] fff

Perc. 2

7:4[♭] 7:4[♭] pp pp

B.D.

IR 017
In: Piano
Out: LS 6 (Gong E)

Vertical
In: Contralto
Out: LS 6 (Gong E)

S.D.1

42

157

C.S.

C.

E.

Pno.

Pno.+Perc. Spat.

rall.

Perc. (voice)

Perc. 1

Perc. 2

B.D.

161

C.S.

אל

חרר

C.

fff

sub
ppp

fff

sub
ppp

E.

p *pp* *mf* *pp*

f inhale

ff

Pno.

after touch

mf

3:2

fff

mf after touch

8th

plucked

plucked and damped

fff

8th

3:2

Pno.+Perc.
Spat.

3:2

rall.

3:2

p

mf

"zum"

fff

t - s - u

"Berg"

mf < *f*

inhaled and whispered

f *ff*

ε - r

ε

Perc. (voice)

Perc. 1

fff *ff* *fff*

Perc. 2

p *mf* *fff* *mf* *pp*

S

fff *ff* *fff*

B.D.

pp *p* *p* *mp*

S.D.1

Vertical
In: Contralto
Out: LS 5 (Gong A)

♩ = 60 **rall.**

C.S.

165

C.

E.

Pno.

Pno.+Perc.
Spat.

B.D.

Gongs

171

♩ = 48 **rall.** ♩ = 36

C.S.

171

o a e i

אֶרְבֵּעִים

11:6♩

mp > *p* *mf* *pp*

pp *p* *pp*

f < *ff* *inhale* *mp* > *pp* < *mp* *pp* *p* *pp*

pp *p* *pp* *f* < *ff* *inhale* *ff* *f* < *ff* *inhale* *ff* *mp*

22:24♩

5

pp

7:6♩

plucked and damped

mf

7:6♩

5:4♩

fff

9/12

fff

plucked and damped

9/12

Battuto with drumstick

ff

Battuto with drumstick

mf

plucked and damped

22:24♩

7:6♩

Pno.

Pno.+Perc. Spat.

rall. **rall.**

rall.

f *ppp*

ts

"auf dem Berg"

7:6♩

f

9/12

ff *f*

7:6♩

5:4♩

ppp *ff* < *fff* *mf* *ff*

9/12

fff *fff* *fff*

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

B.D.

S.D.1

IR 018
In: Contralto
Out: LS 7 (Piano)

The musical score for "The Great Wall" by John Adams is presented in a multi-staff format. The top staff is the C.S. (Conductor's Score) part, which includes a tempo marking of $\text{♩} = 40$ and a *rall.* instruction. The score is divided into four measures, each with a 4/4 time signature. The vocal parts (C.S., C., E.) are written in treble clef, while the piano (Pno.) and percussion parts (Perc. 1, Perc. 2, B.D., Gongs) are written in bass clef. The percussion parts include various rhythmic patterns and dynamics, such as *ff*, *fff*, and *ppp*. The vocal parts include lyrics in German, such as "Si", "ai", "a", "inhale", "u", "S", and "und vierzig". The score also includes various musical notations, such as notes, rests, and dynamic markings.

189

49

C.S.

C.

ppp

E.

Pno.

Pno.+Perc.
Spat.

Perc.
(voice)

Perc. 1

Perc. 2

B.D.

Gongs