The Hands (Movement I)

Musical Section	I	I	I	I	I	I	I
Grouped Events (Phrases)							
Event #	1	2	3		4		5
Start Time of Event	0:00	0:05.1	0:11.412	0:16.165	0:16.356	0:21.724	0:22.351
End Time of Event		0:10	0:16.356	0:16.356	0:21.280		0:25.682
Musical Event	note	tone I	tone II	hands click	tone II.2	hands click	tone III
Panning	left	left	left	x	left	x	right
Pitch content (e.g. F4) Note names by pitch are by approximation.	D2/flat Eb2 (74.5 Hz)	F4; D5 (598 Hz); includes some Bb2	F4 and Eb5 into bass Eb2 (78 Hz)		Bb1, sharp F4 (355 Hz), Eb5 (632 Hz) + sharp F5 (710 Hz), Eb6 sharp/E nat. (1287 Hz partial) + Bb/B6 (1937 Hz)		Eb4 sharp (318 Hz) + Eb5 sharp (637 Hz)
Sound / Timbre / Listening Notes	tone	tone; 1st and 3rd partials. Distortion pulled down by Maurits Rubinstein?	tone	instr. click	tone; 355 Hz, 658 Hz, 1937Hz	instr. click	tone (with a single octave overtone)
Type of event	trigger	trigger	trigger	trigger	trigger	trigger	trigger
Hands control (possible actions given technology, sound, and spectral analysis)	note trigger	note trigger; hand tilt (octave)	note trigger; hand tilt (octave)	push button	note trigger both hands; hand tilt (octave down) + event 3 notes	push button	note trigger
Event Chart Color	blue	blue	blue	yellow	blue	yellow	blue
Event Chart Label	n	n	n	i	n	i	n

The Hands (Movement I)

Musical Section	I	I	I	I	I	I	I
Grouped Events (Phrases)							
Event #		6	7		8	9	10
Start Time of Event	0:25.682	0:25.705	0:28.15	0:32.412	0:32.46	0:35.3	0:37.1
End Time of Event		0:28.15	0:32.460		0:35.23	0:37.1	0:40.58
Musical Event	hands click	tone III.2 + sustain	tone II.3 + scratch	hands click	tone II.4 + pan left	tone II.4 + pan right	tone II.4 + stereo chorus
Panning	x	left	left	x	left	right	all
Pitch content (e.g. F4) Note names by pitch are by approximation.		F3 (177 Hz) + Eb4 sharp (317 Hz) + Eb5 sharp (637.4 Hz)	sharp F4 (355 Hz) + Eb5 (632Hz) + sharp F5 (710Hz)		sharp F4 (355 Hz) + Eb5 (632Hz) + sharp F5 (710Hz) + sharp G#6 (1692 Hz)	sharp G#6 is now 1698 Hz	tone II.3 (see event 7)
Sound / Timbre / Listening Notes	instr. click	chorusing effect; two TX7s playing Eb4? (sounds like #57 Recorder General MIDI instrument)	continuous retriggering of sound	instr. click	tone (G#6 is panned left) so coming from TX7 on left; High note with Chord II (pan left)	-	-
Type of event	trigger	trigger	trig./cont.	trigger	trigger	trigger	trigger
Hands control (possible actions given technology, sound, and spectral analysis)	push button	switch MIDI channel; note trigger	scratch	push button	MIDI channel #1 add note; TX7 #1; hand tilt (octave)	MIDI channel change	MIDI channel change
Event Chart Color	yellow	blue	orange	yellow	blue	blue	blue
Event Chart Label	i	n	s	i	n	n	n

Musical Section	I	I	I	I	I	I	I
Grouped Events (Phrases)							
Event #	11			12		13	
Start Time of Event	0:40.58	0:44.518	0:52.684	0:53.1	0:54.8	0:54.925	0:56.86
End Time of Event	0:44.518	0:52.684	0:53.091	0:54.8	0:54.925	0:59.538	0:57.15
Musical Event	tone II.4 + scratch mode	tone II.4 + scratch + pp	hands click	tone IV + p dynamic	hands click	tone V + scratch + p dyn.	hands click
Panning	all	all	x	left	x	left	x
Pitch content (e.g. F4) Note names by pitch are by approximation.	tone II.3 (see event 7)	tone II.3 (see event 7)		sharp F4 (355 Hz) + G4 (394 Hz)		sharp F4 (355 Hz) + sharp B4 (502 Hz)	
Sound / Timbre / Listening Notes	volume/pan flickering + chorus effect	continuous retriggering of sound, lower dynamic level	instr. click	lower dynamic	instr. click	lower dynamic	sounds remains unchanged, cycling through preset?
Type of event	trigger	continuous	trigger	trigger	trigger	trigger	trigger
Hands control (possible actions given technology, sound, and spectral analysis)	scratch + hands static distance apart	scratch + hands close together	sustain off	note trigger	push button; note trigger	note trigger	push button; sustain back on?
Event Chart Color	orange	orange	yellow	orange	yellow	orange	yellow
Event Chart Label	s	s	i	s	i	s	i

Musical Section	I	I	I	II	II	II	II
Grouped Events (Phrases)							
Event #		14	15	16	17	18	19
Start Time of Event	0:59.216	0:59.538	1:02.55	1:06.625	1:11.25	1:14.4	1:17.1
End Time of Event	0:59.538	1:02.55	1:06.625	1:11.25	1:14.4	1:17.1	1:20
Musical Event	hands click	single note	single note	note + crescendo	note + crescendo	note + crescendo	note + crescendo
Panning	x	left	left	center	center	center	center
Pitch content (e.g. F4) Note names by pitch are by approximation.		sharp B4 (502.5 Hz)	B3 (253 Hz) or is it C4?	B3 (246 Hz) + sharp B4 (502.5 Hz)	sharp B4 (502.5 Hz)	flat F3 (172 Hz)	sharp F6 (1420 Hz) + sharp F7 (2848 Hz) + noise
Sound / Timbre / Listening Notes	instr. click; barely audible	Single tone from chord (slower rate); fifth of previous chord?	Single tone from chord (slower rate); root from previous chord?, fade out, can't hear click?	crescendo swell; low dynamic, pan right, high modulation rate; single TX7?	return to high tone, repeat cresc. swell; motivic development.	play low tone, repeat cresc. swell; is this from the beginning?	play high tone, repeat cresc.; similar high tone from two notes ago?
Type of event	trigger	trigger	trigger	continuous	trig/cont.	trig/cont.	trig/cont.
Hands control (possible actions given technology, sound, and spectral analysis)	note trigger	scratch + hands holding still	note trigger; hand tilt (octave transposition)	new pgm change; see Hz of existing notes change!	scratch mode + moving hands	scratch mode + moving hands	scratch mode + moving hands
Event Chart Color	yellow	orange	orange	red	red	red	red
Event Chart Label	i	s	s	sa	sa	sa	sa

Musical Section	II	II	II	II	II	II	II
Grouped Events (Phrases)							
Event #	20	21	22	23	24	25	26
Start Time of Event	1:20	1:23.0	1:24.5	1:27	1:28	1:29.6	1:31.7
End Time of Event	1:23	1:24.5	1:27	1:28	1:29.6	1:31.7	1:34.3
Musical Event	cresc.	cresc.	cresc.	melodic phrase	cresc.	tone VI	effect + two note phrase
Panning	center	center	center	center	center	center	center
Pitch content (e.g. F4) Note names by pitch are by approximation.	sharp F4 (355 Hz) + noise	vascillating btw. sharp F6 (1431 Hz) and sharp F#6 (1513 Hz)	contains a buzzy flat F4 (342 Hz)	sharp F4 (355 Hz) -> F6/F#6 (1430 Hz)	noise	sharp F5 (711.5 Hz) + sharp G#5 (845.3 Hz)	two notes: Eb4 (315 Hz) -> D5 (598 Hz)
Sound / Timbre / Listening Notes	low tone cresc. swells (x2)	high tone (x2); similar high tone from 19	low tones (x3); same as event 20	pitch material; feels like ti-do, because of 13 Hz change	cresc swells return (x2)	high pitch; held tone	effect on low pitch material
Type of event	continuous	continuous	continuous	trigger	continuous	trigger	cotinuous
Hands control (possible actions given technology, sound, and spectral analysis)	scratch mode + moving hands	scratch mode + moving hands	scratch mode + moving hands	mod wheel? + sustain? Doesn't get full sustain until event #25	scratch mode + moving hands	sustain on	scratch, high amp with sustain
Event Chart Color	red	red	red	blue	red	blue	orange
Event Chart Label	sa	sa	sa	n	sa	n	s

The Hands (Movement I)

Musical Section	II	II	II	II	II	II	II
Grouped Events (Phrases)							
Event #	27	28	29	30	31	32	33
Start Time of Event	1:34.4	1:35.5	1:37	1:49	1:52.5	1:53.6	1:57.8
End Time of Event	1:35.5	1:37	1:49	1:52.5	1:53.6	1:57.7	1:59
Musical Event	tone VII	effect	cresc.	tone VIII + held dynamic	cresc.	held noise, tone IX	effect
Panning	left	all	all	left+right	all	left+right	all-> left
Pitch content (e.g. F4) Note names by pitch are by approximation.	sharp F5 (711 Hz) + D/Eb6 (1207 Hz) + F6/F#6 (1430 Hz) + sharp G#6 (1692 Hz)	sharp F4 (355 Hz) into high noise material includes sharp G#6 (1692 Hz)	built off sharp F6 (1420 Hz) with quiet partial of F7 (2793 Hz)	cluster of harmonics… includes sharp F4 (355 Hz), F6/F#6 (1420 Hz), sharp F7 (2813 Hz)	bass sweep ends at sharp F4 (355 Hz)	sharp F6 (1415 Hz) and sharp F7 (2833 Hz)	F3 + other F octave partials
Sound / Timbre / Listening Notes	pitch; held tone	effect on pitch material; repeat from event #23?	crescendo on pitch (x16); retriggering + FM modulation effect (bowing)	dense material, peak amplitude; noise thresholding, or note events with different TX7	repeat cresc. swells (x2); noisy material (bass sweep up modulation)	return to dense material; bass cl. line (sucking in noise+ Ab2 - Bb2 - Ab2 - F2 - F2+blowing out noise)	increase effect (modulation) no cresc.; noise
Type of event	trigger	continuous	continuous	trig/cont.	continuous	trig/cont.	trig/cont.
Hands control (possible actions given technology, sound, and spectral analysis)	sustain on	scratch, high amp with sustain	scratch mode + moving hands	scratch mode + moving hands + note events in other TX7	scratch mode + moving hands	scratch mode + moving hands + note events in other TX7	scratch, mf dynamic with sustain
Event Chart Color	blue	orange	red	green	red	green	orange
Event Chart Label	n	s	sa	sn	sa	sn	s

The Hands (Movement I)

Musical Section	II	II	II	II	II	II	II
Grouped Events (Phrases)							
Event #	34	35	36	37	38	39	
Start Time of Event	1:59	2:00	2:02.6	2:03.25	2:05.8	2:11.7	2:13.00
End Time of Event	2:00	2:02.6	2:03.25	2:05.8	2:11.7	2:14.2	
Musical Event	pan right	transposition, cresc., tone X	noise hit	transposition, cresc., tone X	transposition, cresc.	transposition, cresc.	hands click
Panning	right	all	all	all	all	left	x
Pitch content (e.g. F4) Note names by pitch are by approximation.		sharp D7 (2398 Hz)		sharp D7 buzzy (2398 Hz) + low bass	D7 buzzy with noise	D4, Eb5, G#4, G#7, among others	
Sound / Timbre / Listening Notes	modulation sweep	triggered buzzy D7 quiet with low bass mod sweep	noise hit	buzzy D7 with low D2 hit that includes other partials	transposition of material with crescendos; noise	fade out of individual pitches; turning off sustain on individual channels?	instr. click
Type of event	continuous	continuous	trigger	continuous	continuous	trigger	trigger
Hands control (possible actions given technology, sound, and spectral analysis)	scratch mode + moving hands	scratch mode; hands still into moving hands	scratch mode + moving hands + note events in TX7	scratch mode + note events in TX7	scratch mode + moving hands	push buttons turning off sustain?, notes, in all channels	push button (see event #37)
Event Chart Color	red	orange -> red	green	org->red->grn	red	blue	yellow
Event Chart Label	sa	sa	sn	sn	sa	n	i

Musical Section	III	III	III	III	III	III	III
Grouped Events (Phrases)							
Event #	40	41		42	43	44	45
Start Time of Event	2:15	2:23.9	2:35.9	2:35.9	2:40.3	2:44.3	2:46.7
End Time of Event	2:23.9	2:35.9		2:40.3	2:44.3	2:46.7	2:50
Musical Event	cresc., tone XI	cresc., tone XI	instrument change	noise + pan	tone XII New timbre	tone XIII	tone XIV/new timbre + cresc.
Panning	left	all + right	x	left	all+center	all+center	left
Pitch content (e.g. F4) Note names by pitch are by approximation.	F4 (355 Hz), D5 (598 Hz), F5 (710 Hz), C6 (1056 Hz low amp), G#6 (1686 Hz), D7 (2380 Hz), G#7 (3386 Hz)	tone XI (see event 40)		sharp F4 (355 Hz) + C6/C#6 (1073 Hz) + sharp B6 (1994 Hz)	includes E3 (167.4 Hz) and F#3	F#3 (185 Hz) + sharp A#6 (1898 Hz)	G5 (788 Hz) + C6 (1057 Hz) + F6 (1409 Hz) + B6 (1980 Hz) + E7 (2645 Hz) + A7 (3520 Hz)
Sound / Timbre / Listening Notes	long single crescendo	long single crescendo accented with hits in right channel	new timbre (akin to lasers)	swell pan in left, moves from right channel over to left; bowing	metallic sound	swell pan in center/right	bell timbre + small cresc. -- end of phrase falls from 2nd group of partials; two sets of stacked fourths (1st falls downward) - hand gesture
Type of event	trig/cont.	trig/cont.	trigger	continous	continous	trig/cont.	trig/cont.
Hands control (possible actions given technology, sound, and spectral analysis)	scratch mode + hands moving slowly apart	scratch mode + moving hands apart + note events in TX7	MIDI pgm change (button click)	sustain on + scratch mode + moving hands	sustain on + scratch mode + moving hands	scratch mode + moving hands + note events in TX7	scratch + hands holding still
Event Chart Color	red	green	yellow	red	red	green	orange
Event Chart Label	sa	sn	i	sa	sa	sn	s

Musical Section	III	III	III	III	III	III	III
Grouped Events (Phrases)							
Event #	46	46b	47	47b	48		49
Start Time of Event	2:50	2:51.9	2:53.35	2:53.85	2:57.6	3:02.24	3:02.3
End Time of Event	2:51.9	2:53.35	2:53.85	2:57.6	3:02.3	3:02.3	3:12.2
Musical Event	tone XV + cresc.	tone XV + cresc. + accents	note/new timbre	note + dynamics	accented notes	instrument click	music phrase
Panning	left	left	left	left	all+right	x	all+right
Pitch content (e.g. F4) Note names by pitch are by approximation.	G5 (788 Hz) + C6 (1057 Hz) + G6 (1590 Hz) + B6 (1980 Hz) + E7 (2645 Hz) + G7 (3151 Hz) + A7 (3520 Hz)	tone XV (see event 46)	F2 with F3, flat F4 (339 Hz)	some F#4 (369 Hz) but mainly F#5 (740 Hz)	D3 (146 Hz) + sharp E4 or flat F4 (339 Hz)		see event 48
Sound / Timbre / Listening Notes	cresc. Sweeps - before accents (hits)	crescendo + three laser notes accented (hits), but similar to sweeps of section II		transposition	random attacks of notes (bells/laser); two pgm changes with notes? Bells/lasers	hard to hear, but there seems to be a change	repeated phrase with accented noise hits; very noisy; four hits at 3:03.78, 3:05.37, 3:06.3, 3:08.325
Type of event	continuous	trig/cont.	trigger	continuous	continuous	trigger	trig/cont.
Hands control (possible actions given technology, sound, and spectral analysis)	scratch mode + moving hands	scratch mode + moving hands	scratch mode + moving hands + note events in TX7	octave + mod wheel, new hand tilt pose	not scratch, with new MIDI program.	new pgm change	scratch mode + moving hands + note events in TX7
Event Chart Color	red	red	green	green	orange	yellow	green
Event Chart Label	sa	sa	sn	sn	s	i	sn

Musical Section	III	III	III	III	III	III	III
Grouped Events (Phrases)							
Event #	50	51	52	53	54	55	56
Start Time of Event	3:12.07	3:16.4	3:20.03	3:21.6	3:24.25	3:25.4	3:26.65
End Time of Event	3:16.4	3:20	3:21.6	3:24.35	3:25.4	3:26.65	3:28.6
Musical Event	held tone	music phrase	cresc.	held tone	transposition	transposition	transposition
Panning	all+right	all+center	all+center	all+center	all+center	all+center	all+center
Pitch content (e.g. F4) Note names by pitch are by approximation.	Eb4/E4 (319 Hz); E5 (660 Hz), A5 (888Hz), Eb6/E6 (1292 Hz)			F#4 (373 Hz)	C#6	Eb6	Eb5
Sound / Timbre / Listening Notes	held tone, pause/stop on note; adds tension	noise phrase with previous phrase at end; noise hit at 3:16.9; previous phrase w/cresc. 3:19.8 - 3:21.6		held tone, pause/stop on note; adds tension	noise phrase with transposed tone	transposed note	transposed note
Type of event	trigger	continuous	continuous	trigger	trigger	trigger	trigger
Hands control (possible actions given technology, sound, and spectral analysis)	sustain on	scratch with high amp + sustain	scratch mode + moving hands	sustain on + mod wheel?	scratch mode + moving hands	note trigger + hand tilt (octave transposition)	note trigger + sustain on
Event Chart Color	blue	orange	red	blue	red	blue	blue
Event Chart Label	n	s	sa	n	sa	n	n

Musical Section	III	III	III	III	III	III	IV
Grouped Events (Phrases)							
Event #	57	58	59	60	61	62	63
Start Time of Event	3:28.6	3:30.6	3:31.54	3:33.1	3:37.46	3:40.68	3:43.7
End Time of Event	3:30.6	3:31.54	3:33.1	3:37.46	3:40.68	3:43.7	3:44.9
Musical Event	phrase (three descending)	note	cresc.	granular	music phrase	sustain	sweep effect
Panning	all+center	all	all+center	all	all	all	all
Pitch content (e.g. F4) Note names by pitch are by approximation.	F#4 + Eb6 -> G#5 -> C#5	Eb4	C3 to G5+C6		1. F#4+E7/F7 (2721 Hz) start, 2.Eb/E4+flat F#7 (2879 Hz) 319 Hz 3. flat F#7 (2879Hz) 4. E5 671 Hz 5. end E4		A4 (440 Hz)
Sound / Timbre / Listening Notes	noise phrase; Eb continues underneath	bell tone in left, noise in right (same note, two channels)	two cresc., very noisy; two swells (3:31.5, 3:32.1)	granular quiet notes (chirping)	musical note phrase; notate this out?	held chord	granular retriggering
Type of event	trig/cont.	trigger	continuous	trig/cont.	trigger	trigger	trig/cont.
Hands control (possible actions given technology, sound, and spectral analysis)	turn sustain off, note events	note trigger	scratch mode + moving hands	scratch mode + sustain on	pgm change, + sustain off; also see 2:57	sustain on	scratch mode + moving hands
Event Chart Color	green	blue	red	orange	orange	blue	red
Event Chart Label	sn	n	sa	s	s	n	sa

Musical Section	IV	IV	IV	IV	IV	IV	IV
Grouped Events (Phrases)							
Event #	64	65	66	67	68	69	70
Start Time of Event	3:44.9	3:45.7	3:46.8	3:48.3	3:50.6	3:53.275	3:54.8
End Time of Event	3:45.7	3:46.8	3:48.3	3:50.6	3:53.275	3:54.8	3:56.6
Musical Event	note	notes (x3)	note	notes (x3)	crescendo	cresc. + two notes	p
Panning	all	all	all	all	all	all+center	all+center
Pitch content (e.g. F4) Note names by pitch are by approximation.	F#4 or G4 (381 Hz)	hits: C4 + Eb5 (627Hz) -> A4; cresc. A6 (1780 Hz)	Bb3	Bb2 and C5	Bb2	Bb2+F5+C6+F7 to Eb4	Eb3 (155 Hz) + F#3 + other partials
Sound / Timbre / Listening Notes	held tone	new note (amp inverse triangle ramp) 'pure dip'	new note (amp inverse triangle ramp); vibrato	new note (amp inverse triangle ramp) return to first pitch; transposition of pitch	amplitude swell; same action, larger gesture, ends on same held tone	amp. Intensification + two pitches moving by descent (F to Eb is what it feels like)	p dynamic; noise
Type of event	trigger	trig/cont.	trig/cont.	trig/cont.	continuous	trig./cont.	continuous
Hands control (possible actions given technology, sound, and spectral analysis)	scratch off	scratch mode on + moving hands + note events in TX7	scratch mode on + moving hands + note events in TX7	mod wheel joystick + scratch mode + moving hands	scratch mode + moving hands	scratch mode + moving hands + note events in TX7	scratch + hands holding still (close together)
Event Chart Color	blue	green	green	red	red	green	orange
Event Chart Label	n	sn	sn	sa	sa	sn	s

The Hands (Movement I)

Musical Section	IV	IV	IV	IV	IV	IV	IV
Grouped Events (Phrases)							
Event #	71	72	73	74		75	
Start Time of Event	3:56.6	3:57.8	4:00.8	4:02.75	4:06.5	4:07.4	4:18.1
End Time of Event	3:57.8	4:00.8	4:02.7	4:07.35	4:07.35	4:18.1	4:23
Musical Event	mf	ff	noise	music phrase	cresc.	noise	decay
Panning	all+center	all+center	all+center	all+center	all+center	all+center	x
Pitch content (e.g. F4) Note names by pitch are by approximation.	Eb3+F#3 -> A#4 -> C#5	Eb3+F#3	Eb2	C3/F2 - F2/Bb2			
Sound / Timbre / Listening Notes	mf dynamic; noise	ff dynamic; noise	added noise to timbre of pitch material; ellision of musical phrases	stacked fourths, like chord stabs	crescendo as a transition	extension, enveloped noise, final moment	ending decay of sound (abrupt end)
Type of event	continuous	continuous	trig./cont.	trig./cont.	continuous	trig./cont.	trigger?
Hands control (possible actions given technology, sound, and spectral analysis)	scratch + hands holding still (medium distance apart)	scratch + hands holding still (large distance apart)	sustain on + scratch mode + moving hands	sustain off + scratch mode + moving hands	sustain off + scratch mode + moving hands	scratch + sustain + moving hands + note events in TX7	Hands or the engineer, Maurits Rubinstein?
Event Chart Color	orange	orange	red	red	red	green	yellow
Event Chart Label	s	s	sa	sa	sa	sn	inconclusive