

Julio Zúñiga

CES

for amplified cello
and electronics

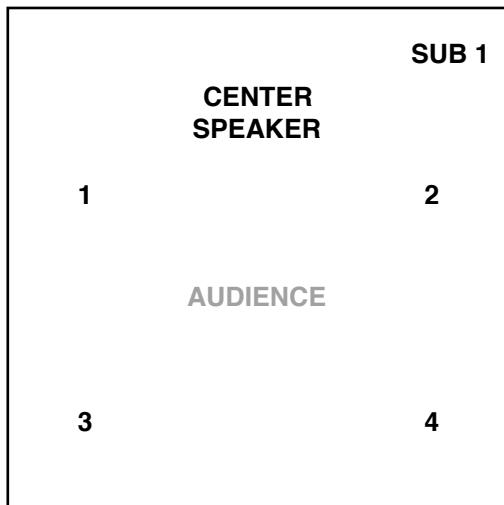
(2018)

INSTRUMENTATION AND SETUP

cello (with scordatura*)
2 MIDI foot pedals
* tune 4th string down to
60Hz before performance
(see page 3)

2 contact microphones
1 cardioid condenser microphone
(Neumann KM 184 or similar)

1 subwoofer
1 speaker center stage
4 speakers around the audience



The performer must not be on stage. Rather, they are amplified from a separate room. This may be a room backstage or any other with a routing mechanism whereby the signal can be fed into the hall.

GENERAL INDICATIONS

Dynamics are to be interpreted very literally throughout. *Cresc.* and *decresc.* should not be applied to note onsets and offsets, respectively. Rather, the impression of crude sonic blocks is desired. (Think of **NOTE ON**, **NOTE OFF**.)

FILTERS AND ELECTRONICS

The cello is very heavily amplified throughout. The amplified, mono signal comes out of the center speaker right after it is filtered using a band-pass filter in Max MSP. The bottom and top frequencies of the BPF are notated as the closest approximate pitches on the small staff below the cello, together with their values in Hz.

While the first MIDI foot pedal simply triggers cues, the second one acts as a kind of expression pedal. The indication "pedal 2" is always accompanied by a glissando of the filters' outer frequencies: the cellist must move through this gliss. using the pedal's up and down positions as beginning and end points of the gliss.

Cue 22 (page 3) inverts the BPF, turning it into a band-stop filter with the same frequency boundaries.

Duration: 7'13"

CES

for Alice Purton
but also for TJ

Julio Zúñiga

$\text{J} = 55$

VC bfl

415 Hz 830 Hz 312 Hz 261 Hz
251 Hz 502 Hz 233 Hz 258 Hz

286 Hz 722 Hz 794 Hz 736 Hz 294 Hz 263 Hz 226 Hz 234 Hz 224 Hz 266.5 Hz

220 Hz 337.5 Hz 382.5 Hz 616 Hz 580 Hz

269.3 Hz 358 Hz 508 Hz 266.5 Hz 1036 Hz 950 Hz 740 Hz 677 Hz

electronics on ly

ped. 2 ped. 2 ped. 2 ped. 2 ped. 2

ped. 2

ped. 2

15

40" —————— 20" —————— 1'20"

16 $\text{J} = 55$ **17** **18** $\text{J} = 88$ **19** **20** **21**

vc **bpf** **mst** **pst** **st**

ped. 2 **ped. 2** **ped. 2** **ped. 2**

imitate line, apply it to cresc.

1444.5 Hz

46 Hz **mp** 43.5 Hz **ppp almost imperceptible** 34.7 Hz

