DAVID BIEDENBENDER

RESONANCE MODES

for amplified prepared piano and electronics

BENT SPACE MUSIC
Resonance Modes was commissioned by Jeannette Fang.

Performance materials available from the composer at davidbiedenbender@gmail.com.

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Resonance Modes: Preparation Instructions

Instructions:

Notes/Strings: C1, D1, E1, F1, G1, A1, C2, D2, E2, G2, F2, A2
Preparation 4: Wrap the putty strip around the string, sticking the other end of it together on itself, at a node that makes the 3rd partial (octave and a 5th above fundamental) more present, though fundamental is still most audible. The resultant sound should be resonant, but shorter and “thuddier” than the open string.

Notes/Strings: E3, F3, G3
Preparation 2: Place wedges between strings (use 2 wedges, one wedge per gap). The resultant sound should still be but quite short and percussive.

Notes/Strings: A3–D5
Preparation 1: Weave felt strip between strings (make a small bunch or loop and then press the felt loop down and between each string group with a small screwdriver). The resultant should be clearly pitched but much shorter and less resonant than the open strings.

Notes/Strings: E5–C6
Preparation 4: Place putty strip across strings, pressing into them to dampen completely. The resultant sound should be hollow, woody, and almost completely pitchless – higher strings will sound higher than lower ones, but

Preparation Materials List:

1 – 3M Scotch® Removable Adhesive Putty: roll/cut into strip approximately ½” wide by 1” long
2 – Felt Wedge, approximately ½” thick (used by piano tuners to dampen strings)
3 – Felt Strips (used by piano tuners to dampen strings)
4 – 3M Scotch® Removable Adhesive Putty: roll/cut into strip approximately ½” wide by 12” long (whatever length is necessary to stretch across strings in given range)
Resonance Modes
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Precise, desolate $\cdot = 88$

Electronics

Amplified Prepared Piano

ff aggressive, brutal

sim.

(Start trill very slowly, accelerate with crescendo)

pp

f

Cue 1

like echoes

-crackling ice echoes
Resonance Modes

Cue 2

(approximate rhythms)

\(f\) cracking ice echoes

Cue 3

(approximate rhythms)

Cue 4

Cue 5

Cue 6

Cue 7

Cue 8

Cue 9

Cue 10

(Start trill very slowly, accelerate with crescendo)

distorted wood block
Resonance Modes

Cue 11

Cue 12

distorted wood block

Cue 13

Cue 14

distorted wood block

Cue 15

(accelerate and decelerate trill with dynamics)

(accelerate and decelerate trill with dynamics)
Resonance Modes

Cue 16

机械、无情

B 132

Cue 17 (sustain)

逆播放声音

Cue 17 (release)

Cue 18

准备钢琴 - 慢慢失真

(sempre Pedo)