

Full Score

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Artifacts

Microtonal Duos for Violin and Cello

Flint Sticks

Stylus 1

Iron Filings (Magnetized)

Threads

Adhesive

X-Acto Knife

Push Pins

Stylus 2

Scouring Pad

Duration ca. 2 minutes each

Artifacts is a series of short duos for micro-tonally tuned violin and cello. Each duo is approximately two minutes, and the performers may choose to play the entire set of nine pieces or a subsection. Performers are free to re-order the pieces, and to alternate them in a program with other short works.

Each instrument has two detuned strings:



The microtonality of this piece is achieved by performers detuning their strings to a quarter tone flat, and then playing the written pitches on detuned instruments in the exact positions they would normally be in to sound in tune. The resulting pitches on the detuned strings are a quarter tone flatter than written.

Numerals: The string on which specific notes are played is highly important to the piece. Therefore there is a running notation of which string (IV, III, II, I) to play each passage of notes. A string numeral applies to the note directly beneath it and all notes following, until the next string numeral.



Open Strings: Much of the music is built around utilizing open strings. For a one-off open string, a “0” will be marked. This may be an outlier from the string numeral instruction. An open string indication does not cancel out a previous string numeral instruction; it only applies to its note (since there are only four open strings anyway, indicating them with a 0 is just the more efficient notation).

Simile: A “Simile” indication comes only once a pattern of string numerals has been established. With a “simile” instruction, continue to play notes on their respective strings as mapped by the previous string numerals.

Cello NB: Because both string II and III have normal intonation on the cello, passages in the mid register are often marked II/III and the choice of string is at the player’s discretion.

27 *gradually broaden stroke*

Vln.

57 Light, Spirited

54

Vln. *ff* *pp*

Vc. *f* *p*

II *bIII* *bIII* IV

R L R L R L R L R L R L R L

60

Vln. *mp*

Vc. *f* *mp*

R L L R L L R *simile*

69

65

Vln. *decresc. al fine*

Vc. *decresc. al fine*

71

Vln. *ppp*

Vc. *ppp*

Stylus 1

♩=60 Airy, Delicate



22 rit.



Iron Filings (Magnetized)

5

♩=120 Rugged

1

Vln. *bow bounce*
bIII II
mf

Vc. *bIV*
f

bI 0 bIII simile

11 Light, Prickly

7

Vln. *bIII IV*
p

Vc.

12

Vln. *ord.*
bI
f p

Vc. *mp*
II bI II bI

20 Growing more Frenzied

17

Vln. *f*

Vc. *f*
II bI II bI simile

25 Raging

21

Vln. *bIII II bIII II*
ff

Vc. *bIV*
molto stacc.
ff

6

26

Vln. *II* *bIII* *II* *0* *II bIII* *II* *bIII* *f*

Vc. *bIV* *f*

32 *bIII* *II* *0* *bIII simile* *0* *II 0*

Vln. *bI* *II/III* *bI*

Vc. *bI* *II/III* *bI*

37 *0* *0* *0* *0* *0* *0* *ff*

Vln. *ff*

Vc. *II/III* *bI* *0* *bI* *III* *bIV* *ff*

42 Unraveling, Slightly Slower

bounce bow *II* *IV*

Vln. *p* *mp* *p* *p* *mp*

Vc. *bI bounce bow* *II* *p* *p* *p*

47 *p* *p* *col leg.* *pp*

Vln. *pp*

Vc. *p* *bIV III*

52

Vln.

Vc.

bIV III

55

Vln.

Vc.

Threads

♩=120 Whispy

*con sord.
sul tasto, flautando*

Vln. *IV* *bIII* *IV* *bIII* *IV* *bIII* *IV* *bIII* *IV*

Vc. *II* *bI* *II* *bI* *II* *bI* *II* *bI*

12

Vln. *bIII* *IV* *bIII*

Vc. *II* *bI*

p

21 ♩=66 Ghostly Dance

*sul pont.
II*

Vln. *pp* *sul pont.
bI*

Vc. *pp*

Vln. *II* *p*

Vc. *II* *bI* *II* *p*

36 ♩=90 With More Energy

*sul tasto, flautando
II*

Vln. *bIII* *mf* *III*

Vc. *pp* *mf* *mf*

40 *bI* *II* *f* *bIV* *III* *bIV* *III* *bIV* *III*

Vln. *f*

Vc.

49 Shadowy

46 *ord.* *III* *III* *II* *simile* *II* *C#*

Vln. *mf* *p* *p* *III* *D* *II* *F#* *II* *simile* *II* *C#*

Vc. *bIV* *III* *bIV* *III* *bIV* *III* *bIV* *III* *bIV* *III* *bIV* *III*

mf *p* *G* *C* *D* *C* *B* *G* *G* *C* *D* *G*

59 *molto sul pont.* *♩* = 66 Ghostly Dance *sul pont.*

53 *II* *bIII* *IV* *pp* *p* *pp* *p* *pp* *p*

Vln. *II* *bIII* *IV* *pp* *p* *pp* *p* *pp* *p*

Vc. *bIV* *III* *II* *molto sul pont.* *pp* *p* *pp* *p* *pp* *p*

C *B* *pp* *p* *pp* *p* *pp* *p* *pp* *p*

61 *mp*

Vln. *mp*

Vc. *mp*

72

69 *IV* *pp* *pp* *pp*

Vln. *pp* *pp* *pp* *pp*

Vc. *mp* *p* *pp* *pp*

17

Vln.

Vc.

bI *II* *III* *II* *bI* *II* *bI* *II* *bI* *II* *bI*

pp

X-Acto Knife

11

1 ♩ = 54 Lethargic and Resistant

Vln. *pp* *ppp*

Vc. *p* *ppp* *mp*

Detailed description: This block contains the first five measures of the piece. The tempo is marked as ♩ = 54, with the character 'Lethargic and Resistant'. The music is in 4/4 time. The Violin part (Vln.) consists of eighth notes, starting with a *pp* dynamic and becoming *ppp* in the second measure. The Violoncello part (Vc.) features a more complex rhythmic pattern with eighth and sixteenth notes, starting with a *p* dynamic and moving through *ppp* and *mp* dynamics.

6 ♩ = 60 Moving Forward accel. ♩ = 90 Careening

Vln. *mf*

Vc. *mf*

Detailed description: This block contains measures 6 through 11. The tempo increases to ♩ = 60, 'Moving Forward'. The music continues in 4/4 time. Both the Violin and Violoncello parts are marked *mf*. The Violin part has a melodic line with some slurs and accents. The Violoncello part provides a rhythmic accompaniment. The tempo is further increased to ♩ = 90, 'Careening', indicated by an 'accel.' marking and a dotted line.

12 15 ♩ = 120 Tumultuous

Vln. *ff*

Vc. *ff*

Detailed description: This block contains measures 12 through 17. The tempo is marked as ♩ = 120, 'Tumultuous'. The music is in 4/4 time. Both the Violin and Violoncello parts are marked *ff*. The Violin part features a more active melodic line with slurs. The Violoncello part continues with a rhythmic accompaniment. The tempo is further increased to ♩ = 120, 'Tumultuous', indicated by an 'accel.' marking and a dotted line.

18

Vln.

Vc.

Detailed description: This block contains measures 18 through 23. The music continues in 4/4 time. The Violin part (Vln.) has a melodic line with slurs and accents. The Violoncello part (Vc.) provides a rhythmic accompaniment. The tempo is further increased to ♩ = 120, 'Tumultuous', indicated by an 'accel.' marking and a dotted line.

24 Wild, Eruptive

Vln.

Vc.

Detailed description: This block contains measures 24 through 29. The tempo is marked as ♩ = 120, 'Wild, Eruptive'. The music is in 4/4 time. The Violin part (Vln.) has a melodic line with slurs and accents. The Violoncello part (Vc.) provides a rhythmic accompaniment. The tempo is further increased to ♩ = 120, 'Wild, Eruptive', indicated by an 'accel.' marking and a dotted line.

12

27

Vln.

Vc.

31 ♩ = 100 Quietly Seething

Vln.

Vc.

35 Slowly Smoothing Out

34

Vln.

Vc.

39

Vln.

Vc.

42

Vln.

Vc.

rit.

Push Pins

13

♩ = 140 Perpetual

1 *pizz.* *bIII*
IV 0 0 IV *simile*

Vln. *p*

Vc. *pizz.* *bIV II* *bIV II* *simile*

p

7

Vln. *p*

Vc. *bIII* *bIV* *III II* *bIV* *bI*

15 Sneaking

14

Vln. *f* *bIII* *II* *II bIII II* *bIII II*

Vc. *bIV III* *II/III* *p* *mp*

f *p*

22 With Some Flair

19

Vln. *f* *bI* *0* *bIII*

Vc. *0* *bI* *II 0* *II/III* *mp* *mf*

f *mp* *mf*

24

Vln. *ff* *II* *bIII* *II* *bIII*

Vc. *bI* *p* *ff*

ff

Vln. *IV bIII* *simile* *0*

Vc. *pp*

Vln. *33* *0* *II* *bIII* *0* *0* *bIII* *II*

Vc. *f* *pp* *f* *pp* *f* *p*

Vln. *38* *0* *bIII* *II* *0* *0* *bI*

Vc. *f* *pp* *f* *pp* *f* *pp* *f* *pp*

Vln. *43* *0* *bIII* *IV* *bIII IV* *simile*

Vc. *II bI* *f* *pp* *mf* *II* *bI* *II* *simile* *p*

Vln. *48* *ff* *pp* *subff*

Vc. *ff* *pp* *subff*

54

Vln.

Vc.

subp *pp*

60

Vln.

Vc.

pp *ff*

Stylus 2

♩=60 Chilly
arco, leg., espr.

62

Vln. *pp* *mp* *pp* *mp*

Vc. *p* *mp*

II *bIII* *bI* *III* *II*

11

Vln. *bIII* *II* *bI* *II* *bI*

Vc. *0* *bI* *II* *bI* *II* *bI* *II* *0* *bI* *II*

16 In the Distance

14

Vln. *ppp* *0* *bIII* *0* *bIII* *0* *bIII* *0* *0*

Vc. *bI* *II* *II* *III* *ppp*

1

Vln.

IV *b*III II *b*III II *b*I

p *mp* *mf* *pp*

Vc.

III II *b*I II *b*I

p *mp* *mf*

*b*IV III/II

[illegible]

Violin (Vln.) and Viola (Vc.) parts, measures 11-18. The Violin part is in treble clef, and the Viola part is in bass clef. Both parts are marked *mp* (mezzo-piano). The key signature has one flat (B-flat). The Violin part features a melodic line with various intervals and a trill in measure 18. The Viola part provides harmonic support with chords and a triplet in measure 15.

Violin (Vln.) and Viola (Vc.) score. The Violin part features a melodic line with a fermata, a trill, and a final note. The Viola part features a bass line with a trill and a final note. The score includes dynamic markings (pp, ppp, p) and articulation (trill, fermata). The key signature is one flat (B-flat), and the time signature is 4/4.