

CHARLES IVES

Second Sonata for Violin and Piano 1906-10

Third Movement, The Revival

[A] Largo

Handwritten annotations: $T_2(a)$ $n < p$, $R(T_2(E))$, d , $M_2(E)$, $M_4(E)$, $M_2(a)$, $4-24: [2, 0, 2, 4, 8]$, $6-34$, $5-34$, $4-22$, $5-16$ (oct.), $4-22$, $4-18$, $6-34: [10, 0, 2, 4, 6, 9]$, $chromatic in flat$, $CHROMA SUBSTITUTION$

* 1-4

Handwritten annotations: $M_6(E)$, $6-35$ even, $6-35$ odd, $5-7$, $4-23 = T_{10}(c)$, $z.h.$, $r.h.$, $l.h.$, $5-19: [7, 6, 10, 1, 2]$, $l.h.$, $8-25: [1, 2, 7, 9]$

5-8

Handwritten annotations: $4-26(R)$, $4-25$, $6-35$ odd, mf , *animando e cresc.*, f , p , pp , $rit.$, mp , *animando e cresc.*, $5-30: [9, 10, 1, 3, 5]$, pp , $8-25: [1, 3, 7, 9]$, $l.h.$, $5-30: [2, 4, 7, 9, 10]$, $5-30: [6, 7, 10, 1, 2]$, $5-30: [1, 1, 0, 3, 5, 7]$, $5-30: [2, 4, 5, 8, 10, 0]$, $6-31: [9, 10, 1, 3, 5, 6]$

9-12

Handwritten annotations: $4-14: [4, 6, 7, 11]$, $3-9: [2, 4, 2]$, $4-29$, $4-22$, $4-22: [4, 6, 8, 11]$, $4-9: [4, 5, 10, 11]$ bounding pu , $pizz.$, pp , *CANON at bottom*, pp blurred together

13-16

* Count includes both kinds of bar lines:

and

44
45

F

ff

7-29: [2, 4, 5, 7, 9, 10, 11]
6-247: [2, 4, 7, 9, 10, 11]

46

6-247

7-30: [2, 4, 5, 7, 9, 10, 11]

49
52

G

allegro assai (con fuoco)

4-22

4-27

3-7

6-23: [2, 5, 7, 9, 11, 0, 2]

53
57

H

4-26

150

6-219: [11, 0, 2, 3, 6, 7]

u/v. 8-26: [2, 3, 4, 6, 7, 9, 11, 0] - complemente inces'chromati 4-21

4-22: [2,4,6,7]

58-62

4-22: [1,0,2,6]

ff

64-69

'Camptown Races'

70-75

fff

4-10: [9,11,0,2] all in 5-22

dim. e rit.

Repeat 2 or 3 times
decr. & rit. gradually to *p* very slowly

pp

ppp

76-79

dim. e rit.

pp

ppp

6-225

7-35: [11,0,2,4,5,7,9] 'C major' 151

Come, Thou Fount of Ev'ry Blessing

ROBERT ROBINSON

JOHN WYETH

AK: 5-35: [4, 6, 8, 11, 12]
4-22: [4, 6, 8, 11]

3-7: [6, 8, 11]

4-23: [6, 8, 11, 12]

3-7: [8, 11, 12]

1-4

Musical notation for the first system, including treble and bass staves with lyrics: "Come, Thou fount of ev'-ry bless - ing, Tune my heart to sing Thy".

6-225: [3, 4, 6, 8, 9, 11]

5-27: [3, 4, 6, 8, 11]

3-4: [4, 8, 9]

5-8

Musical notation for the second system, including treble and bass staves with lyrics: "grace; Streams of mer - cy, nev - er ceas - ing, Call for songs of loud - est".

B 5-27: [8, 11, 13, 4]

4-11: [11, 13, 4]

3-7

5-27: [8, 9, 11, 14]

9-12

Musical notation for the third system, including treble and bass staves with lyrics: "praise. Teach me - some me - lo - dious son - net, Sung by - flam - ing tongues a -".

mutate in here

4-27: [1, 3, 6, 9]

4-20: [3, 4, 8, 11]

13-17

Musical notation for the fourth system, including treble and bass staves with lyrics: "bove; Praise the mount, I'm fixed up - on it! Mount of Thy re - deem - ing love."

6-32: [11, 1, 3, 4, 6, 8]

1

4-22: {4, 6, 8, 11}

1

4-21: {4, 6, 8, 10} V₁

13 4-23: {9, 11, 2, 4}

4-22: [7, 9, 11, 2]

4-14: {4, 6, 8, 11} V₁

15

4-229: {4, 6, 10, 11} V₄

Canon at tritons

12

4-20: {3, 4, 8, 11}

~~4-19: {3, 4, 7, 11} V₁~~

LEVEL 420

GENERATOR SET: 4-20: {3,4,8,11} 101220

Value of y is 1

4-16: {9,11,3,4}	RP	110121	
4-16: {3,4,8,10}	RP	110121	
4-19: {3,4,7,11}	R2	101310	← bar 9
4-19: {8,0,3,4}	R2	101310	
4-27: {8,11,2,4}	R0	012111	
4-27: {3,5,8,11}	R0	012111	

Value of y is 2

4-8: {10,11,3,4}	RP	200121	
4-8: {3,4,8,9}	RP	200121	
4-14: {11,3,4,6}	R2	111120	← bar 10
4-14: {1,3,4,8}	R2	111120	
4-18: {4,5,8,11}	RP	102111	
4-18: {8,11,2,3}	RP	102111	
4-26: {8,11,1,4}	RP	012120	
4-26: {3,6,8,11}	RP	012120	

Value of y is 3

4-5: {11,3,4,5}	R0	210111	
4-5: {2,3,4,8}	R0	210111	
4-19: {4,8,11,0}	R2	101310	
4-19: {7,8,11,3}	R2	101310	
4-22: {4,6,8,11}	RP	021120	
4-22: {8,11,1,3}	RP	021120	

Value of y is 4

4-7: {11,0,3,4}	R1	201210	
4-7: {3,4,7,8}	R1	201210	
4-17: {4,7,8,11}	R1	102210	
4-17: {8,11,0,3}	R1	102210	

Value of y is 5

4-11: {11,1,3,4}	RP	121110	
4-11: {3,4,6,8}	RP	121110	
4-Z29: {4,8,10,11}	RP	111111	← bar 15
4-Z29: {8,9,11,3}	RP	111111	

Value of y is 6

4-4: {11,2,3,4}	RP	211110	
4-4: {3,4,5,8}	RP	211110	
4-14: {4,8,9,11}	R2	111120	
4-14: {8,10,11,3}	R2	111120	

THIS ONE FOR SEMINAR

IVES.422

GENERATOR SET: 4-22: {4,6,8,11} 021120

Value of y is 1

4-13: {5,6,8,11}	R0	112011	
4-14: {4,6,7,11}	R2	111120	- bar 13 vertical
4-17: {4,7,8,11}	RP	102210	
<u>4-18</u> : {4,5,8,11}	RP	102111	
4-21: {4,6,8,10}	RP	030201	- bar 1
4-23: {4,6,9,11}	R2	021030	- bar 10 - also T ₁₀ 4-23
4-24: {4,6,8,0}	RP	020301	
4-26: {3,6,8,11}	R1	012120	

Value of y is 2

4-11: {4,6,8,9}	R2	121110	
4-16: {4,6,10,11}	RP	110121	
4-22: {1,4,6,8}	ic	identical	021120
4-27: {6,8,11,2}	RP	012111	

Value of y is 3

4-4: {6,7,8,11}	RP	211110	
4-6: {4,5,6,11}	RP	210021	
4-14: {4,8,9,11}	R2	111120	
4-20: {3,4,8,11}	RP	101220	- in hyperbar 12
4-21: {2,4,6,8}	RP	030201	
4-23: {6,8,11,1}	R2	021030	in hyper

Value of y is 4

4-2: {4,6,7,8}	R1	221100	
4-11: {3,4,6,8}	R2	121110	
4-Z15: {6,8,11,0}	RP	111111	
4-16: {11,0,4,6}	RP	110121	
4-27: {8,11,2,4}	RP	012111	
4-Z29: {4,8,10,11}	RP	111111	bar 15

Value of y is 5

4-10: {6,8,9,11}	RP	122010	
4-14: {11,3,4,6}	R2	111120	
4-23: {11,1,4,6}	R2	021030	
4-26: {8,11,1,4}	R1	012120	

Value of y is 6

4-2: {4,5,6,8}	R1	221100	
4-11: {6,8,10,11}	R2	121110	
4-19: {4,8,11,0}	RP	101310	
4-22: {11,2,4,6}	ic	identical	021120 bar 10

GENERATOR SET: 4-23: {6,8,11,1}

021030

Value of y is 1

4-Z15: {6,8,11,0}	RP	111111
4-Z15: {7,8,11,1}	RP	111111
4-16: {6,7,11,1}	R0	110121
4-16: {6,8,0,1}	R0	110121
4-22: {6,9,11,1}	R2	021120
4-22: {6,8,10,1}	R2	021120
4-27: {6,8,11,2}	RP	012111
4-27: {5,8,11,1}	RP	012111

Value of y is 2

4-14: {6,10,11,1}	RP	111120
4-14: {6,8,9,1}	RP	111120
4-26: {3,6,8,11}	RP	012120
4-26: {8,11,1,4}	RP	012120

Value of y is 3

4-11: {6,8,10,11}	RP	121110
4-11: {8,9,11,1}	RP	121110
4-16: {11,1,5,6}	R0	110121
4-16: {1,2,6,8}	R0	110121
4-22: {4,6,8,11}	R2	021120
4-22: {8,11,1,3}	R2	021120

bar 12 vertical

Value of y is 4

4-6: {11,0,1,6}	RP	210021
4-6: {6,7,8,1}	RP	210021
4-10: {6,8,9,11}	RP	122010
4-10: {8,10,11,1}	RP	122010
4-13: {5,6,8,11}	RP	112011
4-13: {8,11,1,2}	RP	112011
4-23: {11,1,4,6}	ic identical	021030
4-23: {1,3,6,8}	ic identical	021030

Value of y is 5

4-22: {11,1,3,6}	R2	021120
4-22: {1,4,6,8}	R2	021120

Value of y is 6

4-4: {6,7,8,11}	RP	211110
4-4: {8,11,0,1}	RP	211110
4-14: {11,1,2,6}	RP	111120
4-14: {1,5,6,8}	RP	111120

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GENERATOR SET: 4-11: {11,1,3,4} 121110

Value of y is 1

4-3: {0,1,3,4}	RP	212100
4-4: {11,2,3,4}	R1	211110
4-7: {11,0,3,4}	RP	201210
4-10: {11,1,2,4}	R2	122010
4-13: {10,1,3,4}	RP	112011
4-21: {11,1,3,5}	R0	030201

Value of y is 2

4-2: {11,1,2,3}	R2	221100
4-Z15: {11,1,4,5}	R2	111111
4-22: {11,1,3,6}	R2	021120
4-Z29: {9,1,3,4}	R2	111111

Value of y is 3

4-1: {1,2,3,4}	RP	321000
4-4: {11,0,1,4}	R1	211110
4-8: {10,11,3,4}	RP	200121
4-14: {1,3,4,8}	R1	111120
4-23: {11,1,4,6}	RP	021030
4-24: {11,1,3,7}	RP	020301

Value of y is 4

4-2: {11,0,1,3}	R2	221100
4-5: {11,3,4,5}	RP	210111
4-12: {1,3,4,7}	RP	112101
4-16: {9,11,3,4}	RP	110121
4-22: {8,11,1,3}	R2	021120
4-27: {11,1,4,7}	RP	012111

Value of y is 5

4-10: {1,3,4,6}	R2	122010
4-13: {10,11,1,4}	RP	112011
4-14: {11,3,4,6}	R1	111120
4-20: {3,4,8,11}	RP	101220
4-21: {9,11,1,3}	R0	030201
4-26: {8,11,1,4}	RP	012120

- false

Value of y is 6

4-2: {1,3,4,5}	R2	221100
4-11: {10,11,1,3}	ic identical	121110
4-19: {3,4,7,11}	R2	101310
4-22: {9,11,1,4}	R2	021120

bars

Derivation of some sets in first part (mm. 1-19) of Ives's Second Sonata, III from the Hymn, "Come, Thou Fount of Ev'ry Blessing"

Set Name	Pitch-Class Form	Location	Derived from
✓ 4-11	2 4 6 7 5 6 8 10	m. 3 Vn. m. 5 Pno	4-11: {1,1,3,4} (T9) 93
✓ 4-14	4 6 7 11	m. 13 Pno.	4-22: {4,6,8,11} (V1)
4-16	9 10 2 4	m. 20 Vn.	4-11, 4-20, 4-22, 4-23
4-17	6 9 10 1	m. 11 Pno. ?	4-27: {1,3,6,9} (V5)
	10 1 2 5	m. 17 Pno. ?	4-20: {3,4,8,11} (V3)
✓ 4-19	3 7 11 4	m. 9 Pno.	4-20: {3,4,8,11} (V1)
	4 8 11 0	m. 17 Pno.	4-20: {3,4,8,11} (V3)
4-20	11 0 4 7	m. 13 Vn. & Pno.	4-20: {3,4,8,11} (T8)
✓ 4-21	4 6 8 10	m. 1 Vn.	4-22: {4,6,8,11} (V1)
4-22	9 11 1 4	m. 5 Pno.	4-22: {4,6,8,11} (T5) and 4-23: {6,8,11,1} (V3)
	7 10 0 2	m. 8 Pno.	4-22: {4,6,8,11} (IT6) and, indirectly, 4-23
4-23	0 2 4 7	m. 17 Pno.	4-23: {6,8,11,1} (T6)
4-z29	4 8 10 11	m. 15 Pno.	4-22: {4,6,8,11} (V4) 4-20: {3,4,8,11} (V5) 4-22: {4,6,8,10} (V5)
5-16	4 5 7 8 11	m. 6 Pno.	None, but many 'internal'
5-19	7 8 10 1 2	m. 8 Pno.	None, but many 'internal'
5-22	10 11 2 5 6	m. 8 Pno.	None
5-30	3 4 7 9 1	m. 9 Pno. (in seq.)	None direct, but V-derivable from 5-35 and 5-27
5-32	0 1 4 6 9	mm. 5-7 Vn.	None direct, but V-derivable from 5-27 and 5-35
5-33	8 10 0 2 4	m. 1 Pno.	None. Several 'internal'
6-30	7 8 10 1 2 4	m. 8 Pno.	None. (octa)
6-31	9 10 1 3 5 6	m. 11 Pno.	None direct, but V-derivable from 6-z25 and 6-32
6-34	2 4 6 8 10 11	m. 2 Vn. & Pno.	None (relates to whole-tone transforms)
6-35	10 0 2 4 6 8	m. 6 Pno	None (relates to whole-tone transforms)
6-z47	10 11 0 2 5 7	mm. 9-11 Pno.	Complement of 6-z25 and V-derivable from 6-32

17-20

C 4-16: 9, 10, 24

rit. freely

arco *p* *triteni*

p *più mosso*

ten.

p 4-23: (9, 11, 24)

h *F* *B*

(*ten.*)

21-25

Canon

pizz. ppp *pp arco*

very slowly again

rit.

pp

poco ten.

26-29

faster (allegretto con moto)

poco rit. *a tempo* *poco rit.*

p

D Allegretto

senza sordino

mf

30-31

Ives, Second Violin Sonata, III: Pitch Materials

Basic Components of the Hymn, "Come, Thou Fount of Ev'ry Blessing"

Pc Set	Comment
3-4: {4,8,9}	Potential atonal trichord
3-6: {4,6,8}	Diatonic and Whole-Tone
3-7: {8,11,1}	Diatonic trichord (also pentatonic)
4-11: {11,1,3,4} > 3-7	Diatonic tetrachord
4-22: {4,6,8,11} > 3-7	Pentatonic tetrachord
4-23: {6,8,11,1} > 3-7	Diatonic & pentatonic
5-27: {8,11,1,3,4} > 4-11, 3-7	A diatonic scale segment
5-35: {4,6,8,11,1} > 4-22, 4,23, 3-7	Pentatonic scale
6-z25: {3,4,6,8,9,11}	Diatonic
6-32: {11,1,3,4,6,8}	Diatonic (major hexachord)

Ives, Second Violin Sonata, III (1906-1910)

Genera Matrix

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
3-7							o				o	o
4-9	o											
4-10							o					
4-14										o		
4-z15	o	o										
4-16	o	o										
4-17									o			
4-19				o				o	o	o		
4-20										o		
4-21		o										
4-22											o	o
4-23											o	
4-24		o		o								
4-25		o										
4-26												o
4-27		o	o									o
4-z29	o	o										
5-14	o	o						o			o	
5-16	o	o	o			o			o			
5-19	o	o	o				o		o			
5-22	o		o	o				o	o	o		
5-23							o			o	o	o
5-25	o	o	o				o					o
5-28	o	o	o			o						o
5-29	o	o	o				o			o	o	o
5-30	o	o		o				o	o	o	o	o
5-32	o	o	o						o			o
5-33		o		o								
5-34		o	o								o	o
5-35											o	o
6-30	o	o	o			o	o		o			o
6-31	o	o	o	o		o	o	o	o	o	o	o
6-32							o			o	o	o
6-33	o	o					o			o	o	o
6-34	o	o	o	o		o	o	o	o	o	o	o
6-35		o		o								
6-z41	o	o	o		o	o	o				o	o
6-z47	o	o	o				o			o	o	o

Counts: 19 24 14 8 1 6 13 6 10 12 15 19

G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12

Squo Indices in Descending Order with Genera

- .136: G11 (dia)
- .111: G12 (dia-tonal)
- .105: G4 (augmented)
- .098: G2 (whole-tone)
- .085: G3 (diminished)
- .079: G1 (atonal)
- .077: G10 (atonal-tonal)
- .076: G7 (chroma-dia)
- .064: G9 (atonal-tonal)
- .038: G8 (atonal)
- .035: G6 (semichroma)
- .009: G5 (chroma)

IVES, Second Violin Sonata, II
 Some derivations from the hymn

Hymn

4-11: [11, 1, 3, 4] 4-22: [4, 6, 8, 11] 4-13: [6, 8, 11, 12]

Sonata

4-11: [2, 4, 6, 7] T₃
 [5, 6, 8, 10] IT₀ 4-21: [4, 6, 8, 10] V₁ 4-20: [3, 4, 8, 11] 4-23: [0, 2, 5, 7] T₆

4-14: [4, 6, 7, 11] V₁ 4-19: [2, 4, 7, 11] V₁

4-229: [4, 6, 10, 11] V₄

6-225: [3, 4, 6, 8, 9, 11]

4-14

6-247: [10, 11, 0, 2, 5, 7]

Litaval complement of
 6-225: [5, 7, 10, 0, 1, 2] hence 6-247 in minor 10-11
 w IT₀ (6-225)

4-14: 7, 11, 0, 2

4-22: [10, 0, 2, 5]
 [7, 10, 0, 2]

32-
34

E
f *allegro con moto*
10
f

35-
37

f *allegro con moto*
l.h.
l.h.

38-
40

f *allegro con moto*
l.h.

41-
43

f *allegro con moto*
l.h.

44-45

F

ff

46-48

49-52

G

allegro assai (con fuoco)

53-55

H

and.

58-
63

64-
69

70-
75

76-
79

EX. 6

P. 3 of handout

P 6-32

ACP Chroma
Analog
(6-32)

EX. 7

Thus

ACP → P

Definitive: 4-23 4-22
 (not all) 4-22 4-14
 4-14 4-23
 4-22 4-21

CHARLES IVES

Second Sonata for Violin and Piano 1906-10

V₁: 4-22 → 4-21

Third Movement, The Revival

5-27: **Largo**
pp con sordino
 5-33: [8, 10, 0, 2, 4]
 4-11: [2, 4, 6, 2] *Canon*
 4-10: [1, 1, 2, 4]
 4-11: [5, 6, 8, 10] *IT₀*

5-32: [0, 1, 4, 0, 9]
 4-24: [0, 2, 4, 8]
 6-34: [2, 4, 6, 8, 10, 11] 5-34: [0, 2, 4, 5, 9]
 6-34 5-28: [5, 7, 8, 11, 12]
 4-22: [7, 10, 0, 2]
 6-35 (h. h. w.) *più mosso*
 3-7: [0, 4, 3] r.h.
 5-22 r.h. f
 5-22 r.h. f
 5-22 r.h. f

4-22: [9, 11, 1, 4]
 5-16: [4, 5, 7, 8, 11]
 4-22 4-11 5-33: [1, 1, 3, 5, 7]
 4-22: [7, 9, 11, 2]
 5-19: [7, 8, 10, 1, 2]
 8-25: [1, 3, 7, 9] l.h.
 8-25: [1, 3, 7, 9] l.h.
 5-30 *mp animando e cresc.*
 4-14: [0, 4, 5, 7]
 4-22 4-11 5-33: [1, 1, 3, 5, 7]
 4-19: [6, 9, 10, 12] f
 4-22: [7, 9, 11, 2] *pp*
 4-22: [7, 9, 11, 2] *slowly*

8-25: [1, 3, 7, 9] l.h.
 4-23 *poco ten.* **B**
 4-23 *poco a poco rit.* *poco ten.*
 6-31: [9, 10, 11, 3, 5, 6]
 4-22: [8, 11, 1, 3] 8-22: [10, 1, 3, 5]
 Direct quotation
 pizz. *pp* *very slowly*
 Canon
 4-22: [10, 1, 3, 5] *pp blurred together*

4-14: [4, 6, 9, 11]
 4-20 [11, 0, 4, 9]
 4-9: [4, 5, 10, 11]
 4-22: [4, 8, 10, 11]
 4-22

147

8-17 (28 w/o vii)

= B section hymn with v transform

17-20

8-9

4-9

rit. freely

arco p

più mosso

ten.

p 4-23

4-16: [9,10,11]

4-19: [4,8,11,0]

4-21: as in tr. 1 *

8-23: [9,10,11,0,2,4,5] (1,3,6,8)

21-25

pizz. ppp

pp arco

very slowly again

rit.

4-9 pp

10-5: (3,5)

8-23

6-32 all

26-29

5-14

[9,10,11]

faster (allegretto con moto)

poco rit.

a tempo

poco rit.

4-23: [9,11,2,4]

Allegretto

30-31

senza sordino

mf

f

4-23

5-35: [2,4,6,9,11]

5-35: [4,6,8,11,0]

as in hymn

7-35 ('A major')

5-23: (4,10,0)

32-34

E 3-7

f *allegro con moto*

5-35: [7, 9, 11, 2, 4]

10

4-27

6-33: [2, 4, 5, 7, 9, 11]

35-37

2-7

5-35: [0, 2, 4, 7, 9]

3-6

l.h.

4-26: [4, 7, 9, 11]

l.h.

bass
F-G-A
(3-6) — i.e., upbeat of hymn, enlarged

38-40

l.h.

41-43

l.h.