

# 1. The Stock Market Phenomenon

**1** (tacet until 3rd movement) **2**  $\text{♩} = 60$

Vib. e-sounds

Bells, Video, Electro-acoustic music

**1: electro music 1**  
**2: video 1**

dampen lightly all strings; start on sign of violin I; for the next 23" until a sign given by violin I, move the bow so slowly, that only the whispers of the bow hairs can be heard by the audience.

Violin I

Violin II

Viola

Violoncello

nrml. tst.v. nrml. pnt. nrml. gtt.... nrml. nrml. pizz.

nrml. fltnd. gtt..... m.c. fltnd.

nrml. pnt. tst.v. nrml. sul D sul C

nrml. nrml. pnt. nrml. m.vib.

sul C sul D

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(end of video 1)

arco nrml. tst.v. gtt..... nrml. nrml. tst.v. pizz.

sul G nrml. mlt. vbrt. nrml. sul G sul D

tst.v. nrml. mlt. vbrt. s. brdg. b.

m.vib. tst.v. pnt. sul G m.c. nrml. nrml. nrml. sul A

D fltnd. sul A sul C sul D nrml.

sul A

arco mlt. vbrt. nrml. m.c. nrml. tst.v. fltnd. nrml. pizz.

nrml. sul D fltnd. pnt. sul D nrml. sul D

nrml. pnt. sul G nrml. nrml. nrml. mlt. vbrt.

nrml. sul C nrml. nrml. nrml. sul C fltnd.

sul D pnt. tst.v. fltnd.

21 **5** 3: video 2

(end of video 2)

arco nrml. mlt. vbrt. gtt..... nrml. fltnd. nrml. 4/4 tst.v. 1/4 pizz. 4/4

nrml. nrml. sul D sul G sul A sul D

sul A sul G m.c. sul G fltnd. sul G nrml.

sul A sul C pnt. sul C m.c. nrml. sul D nrml.

sul G

27 **6** arco (changing colours)

*fp* *poco a poco sempre più cresc.* *pizz.*

*f* *f* *f*

*pizz.* *f* *f*

*pizz.* *f*





57 **11**

(end video 4)

6: video 5

Musical score for measures 57-62. The score is written for four staves. The first staff (treble clef) has a 4/4 time signature, which changes to 5/4 for measures 58-61, and returns to 4/4 for measure 62. The second staff (treble clef) has a 4/4 time signature. The third staff (treble clef) has a 4/4 time signature. The fourth staff (treble clef) has a 4/4 time signature. The score includes various performance instructions such as 'arco', 'nrml.', 'tst.v.', 'gtt.....', 'mlt. vbrt.', 'sul G', 'sul D', 'sul A', 'sul C', 'pnt.', 'm.c.', 's. brdg. b.', and 'pizz.'. The key signature is one sharp (F#).

63 **12**

(end video 5)

Musical score for measures 63-68. The score is written for four staves. The first staff (treble clef) has a 4/4 time signature, which changes to 5/4 for measures 64-67, and returns to 4/4 for measure 68. The second staff (treble clef) has a 4/4 time signature. The third staff (treble clef) has a 4/4 time signature. The fourth staff (treble clef) has a 4/4 time signature. The score includes various performance instructions such as 'arco', 'mlt. vbrt.', 'nrml.', 'm.c.', 'tst.v.', 'fltnd.', 'sul D', 'sul G', 'sul C', 'pnt.', 'pizz.', and 'p'. The key signature is one sharp (F#).

69

13 fltr-fngr.

*p cresc.* arco fltr-fngr. *mp cresc.* arco fltr-fngr. *mf cresc.* arco fltr-fngr. *f* *mf*

75

14 arco (changing colours)

*fp cresc.* pizz. *f* pizz. *f* pizz. *f* *f* *p*

81 **15**

7: video 6

Violin (Vln): *tst.v.*, *nrml.*, *pnt.*, *nrml.*, *nrml.*, *pizz.*

Violoncello (Vcl): *arco*, *sul D*, *nrml.*, *m.c.*, *nrml.*, *nrml.*

Double Bass (Cb): *s. brdg. b.*, *arco*, *nrml.*, *pnt.*, *nrml.*, *fltn.*, *nrml.*

Double Bass (Cb): *arco*, *sul A*, *m.c.*, *nrml.*, *mlt. vbrt.*

87 **16**

(end of video 6)

Violin (Vln): *nrml.*, *mlt. vbrt.*, *gtt.....*, *nrml.*, *fltn.*, *nrml.*, *tst.v.*, *pizz.*

Violoncello (Vcl): *arco nrml.*, *nrml.*, *sul D*, *sul G*, *sul A*, *sul D*

Double Bass (Cb): *sul A*, *sul G*, *sul G*, *nrml.*

Double Bass (Cb): *sul A*, *sul C*, *sul C*, *sul D*

Double Bass (Cb): *pnt.*, *sul G*, *m.c.*, *nrml.*, *nrml.*



93 **17**

arco mlt. vbrt. nrml. m.c. nrml. tst.v. fltnd. nrml. pizz.

nrml. sul D fltnd. pnt. sul D nrml. sul D pnt. sul D

nrml. pnt. sul G nrml. nrml. mlt. vbrt.

nrml. sul C pnt. tst.v. tst.v. fltnd.

sul D sul C

99 **18**

8: video 7 (end of video 7)

arco nrml. tst.v. gtt..... nrml. nrml. tst.v. pizz.

tst.v. sul G nrml. mlt. vbrt. nrml. sul G mlt. vbrt. sul D s. brdg. b.

m.vib. tst.v. pnt. sul G m.c. nrml. nrml. sul A nrml.

fltnd. fltnd. sul A sul C

19

105 arco nrml. tst.v. nrml. pnt. nrml. gtt... nrml. nrml. pizz.

nrml. fltnd. gtt..... m.c. fltnd.

nrml. pnt. tst.v. nrml.

nrml. sul D pnt. sul C nrml. m.vib.

sul C sul D

111

20

♩ = 100  
9: NYSE bell 1

## 2. The Trading Floor

4/4 3/4 4/4

violin 2 sul pont. (until bar 138)

pp mf

5:4

3

pp mf

pp mf

strictly in tempo

117 **21**

10: electro 2 "flutterice"  
and 11: video 8

Musical score for measures 117-122. The score is for three staves: Violin 2 (top), Viola (middle), and Cello/Double Bass (bottom). The time signature is 4/4, with a 3/4 measure at the end of the system. The key signature has one flat (B-flat). The score includes dynamic markings *pp* and *mf*, and performance instructions "sul pont." and "5:4".

123 **22**

Musical score for measures 123-128. The score is for three staves: Violin 2 (top), Viola (middle), and Cello/Double Bass (bottom). The time signature is 4/4, with a 3/4 measure at the end of the system. The key signature has one flat (B-flat). The score includes dynamic markings *pp* and *mf*, and performance instructions "sul pont." and "5:4". The instruction "strictly in tempo" is written at the bottom right.

129 **23** arco (changing colours)

Musical score for measures 129-134. The score is in 4/4 time and features four staves: Violin 1, Violin 2, Viola, and Cello/Double Bass. The first staff (Violin 1) starts with *fp cresc.* and *pizz.*, then switches to *arco sul pont.* with a 5:4 ratio, and ends with *pizz.*. The second staff (Violin 2) starts with *f pizz.*, then *arco sul pont.*, and ends with *f pizz.*. The third staff (Viola) starts with *f*, then *pp* and *mf* with a triplet, and ends with *f*. The fourth staff (Cello/Double Bass) starts with *sul pont.* and *pp*, then *mf*, and ends with *f*. The tempo marking "strictly in tempo" is at the bottom right.

**24**

Musical score for measures 135-140. The score is in 4/4 time and features three staves: Violin 2, Viola, and Cello/Double Bass. The first staff (Violin 2) is labeled "violin 2" and starts with *arco* and a 5:4 ratio, then *pp* and *mf*. The second staff (Viola) starts with *arco*, then *pp* and *mf* with a triplet, and ends with a triplet. The third staff (Cello/Double Bass) starts with *pp* and *mf*. A green annotation "12: electro 3 'cosmic-ed'" is above the first staff. A box labeled "new Tempo!" is at the bottom right.

141 **25** ♩ = 92 (= poco più mosso)  
13: temple bell and 14: video 9

Musical score for measures 141-143. The score is in 4/4 time and consists of four staves. The first staff is a treble clef with a whole rest. The second staff is a treble clef with a forte (*f*) dynamic and a 'nat.' marking. It features a melodic line starting with a 5:4 ratio marking. The third staff is a bass clef with a 'nat.' marking and dynamics of *p* and *f*. The fourth staff is a bass clef with a 'nat.' marking and dynamics of *p* and *f*. The music is characterized by complex rhythmic patterns and chromaticism.

Musical score for measures 144-146. The score is in 4/4 time and consists of three staves. The first staff is a treble clef with a melodic line. The second staff is a bass clef with a triplet marking and dynamics of *p* and *f*. The third staff is a bass clef with a 'nat.' marking and dynamics of *p* and *f*. The music continues with complex rhythmic patterns and chromaticism.

arco (changing colours)

Musical score for measures 147-150, arco section. The score is written for four staves: Violin I (top), Violin II, Viola, and Cello/Double Bass. The key signature has one flat (B-flat major/D minor) and the time signature is 4/4. The first staff (Violin I) starts with a half note G4, marked *fp cresc.*. The second staff (Violin II) has a whole rest in measure 147, followed by a 5:4 ratio marking over a sixteenth-note triplet in measure 148, marked *p*. The third staff (Viola) has a whole rest in measure 147, followed by a triplet of eighth notes in measure 148, marked *p*. The fourth staff (Cello/Double Bass) has a half note G3 in measure 147, marked *p*, followed by a triplet of eighth notes in measure 148, marked *p*. The score continues with various rhythmic patterns and dynamics, including a *f* marking in measure 149. The section ends with a double bar line and repeat slashes.

150 (end of electro 3 and video 9)

Musical score for measures 150-151, pizzicato section. The score is written for four staves: Violin I (top), Violin II, Viola, and Cello/Double Bass. The key signature has one flat (B-flat major/D minor) and the time signature is 4/4. The first staff (Violin I) has a half note G4 in measure 150, followed by a quarter note G4 in measure 151. The second staff (Violin II) has a half note G4 in measure 150, followed by a quarter note G4 in measure 151, marked *pizz.*. The third staff (Viola) has a half note G3 in measure 150, followed by a quarter note G3 in measure 151, marked *pizz.*. The fourth staff (Cello/Double Bass) has a half note G2 in measure 150, followed by a quarter note G2 in measure 151. The score continues with various rhythmic patterns and dynamics, including a *f* marking in measure 151. The section ends with a double bar line and repeat slashes.

153 27

violin 2

arco

5:4

arco

*p* *f*

*p* *f*

*p* *f*

28

violin 2

5:4

*p* *f*

*p* *f*

162

29



167



171 **30** ♩ = 115 (= poco più mosso)

4/4  
**strike temple bell and cue cello**

*f*  
*mp* 5:4  
*détaché* *mp*  
*mp* *ff*  
*ff*  
*ff*

174 **31**

*mp*  
*mp*  
*mp*  
*mp*

178

5:4  
mp  
ff  
mp  
ff  
3/4 4/4

183

32

arco (changing colours)

fp cresc.  
5:4  
mp  
ff  
mp  
ff  
3/4 4/4

187

33

Violin I: *pizz.*, *f*, *mp cresc.*, *arco*, *mp cresc.*

Violin II: *pizz.*, *f*, *mp cresc.*, *arco*, *mp cresc.*

Viola: *pizz.*, *f*, *mp cresc.*, *arco*, *mp cresc.*

Cello/Double Bass: *mp cresc.*, *mp cresc.*, *mp cresc.*, *ff dim.*, *ff dim.*

192

34

Violin I: *ff dim.*

Violin II: *mp cresc.*

Viola: *mp cresc.*

Cello/Double Bass: *mp cresc.*, *2 1*

violin 2

196

violin 2

3/8

3

*mp cresc.*

3/8

5:4

*mp cresc.*

3

*ff dim.*

5:4

*ff dim.*

35

♩ = 115 (= poco più mosso)

15: electro 4 "bouncy-ed" and 16: video 10 strike temple bell and cue cello

199

3/4

4/4

*ff*

3/4

4/4

5:4

*f*

5:4

3

5:4

3

5:4

5:4

5:4

new Tempo!

*f*

3

5:4

5:4

203 violin 2

Violin 2 score, measures 203-205. The music is in 3/4 time. Measure 203 starts with a 3-measure group. Measures 204 and 205 feature 5:4 rhythmic markings and a 3-measure group at the end of the system.



206 36

Violin 2 score, measures 206-208. The music is in 3/4 time. Measure 206 starts with a 5:4 rhythmic marking. Measure 207 includes a vocal line (V<sup>o</sup>) and a 3-measure group. Measure 208 features a 5:4 rhythmic marking and a 3-measure group at the end of the system.

209 arco (changing colours)

Musical score for measures 209-212. The score is written for four staves (Violin I, Violin II, Viola, and Cello/Double Bass). The key signature is one sharp (F#). The time signature is 3/4. The first measure (209) is marked *fp cresc.*. The score features complex rhythmic patterns, including triplets and 5:4 ratios. The piece concludes with a double bar line and repeat slashes on both sides.

212

37

arco

Musical score for measures 212-215. The score is written for four staves (Violin I, Violin II, Viola, and Cello/Double Bass). The key signature is one sharp (F#). The time signature is 3/4. The first measure (212) is marked *fp cresc.*. The score features complex rhythmic patterns, including triplets and 5:4 ratios. The piece concludes with a double bar line and repeat slashes on both sides.

215

Musical score for measures 215-216. The score is written for four staves: two treble clefs and two bass clefs. The time signature is 5:4. The key signature has one sharp (F#). Measure 215 contains a melodic line in the first treble staff with a triplet of eighth notes, and a bass line with a triplet of eighth notes. Measure 216 continues the melodic and bass lines with various rhythmic patterns and accidentals.

217

17: video 11

Musical score for measures 217-218. The score is written for four staves: two treble clefs and two bass clefs. The time signature changes from 5:4 to 3:4 in measure 217 and back to 5:4 in measure 218. The key signature has one sharp (F#). Measure 217 features a melodic line in the first treble staff with a triplet of eighth notes, and a bass line with a triplet of eighth notes. Measure 218 continues the melodic and bass lines with various rhythmic patterns and accidentals.

♩ = 138

38

219

*p cresc.*

FASTER Tempo!

*ff*

*ff*

*p cresc.*

*ff*

*p cresc.*

*ff*

*ff*

*p cresc.*

*ff*

FASTER Tempo!

*ff*

*p cresc.*

*ff*

*ff*

*p cresc.*



This musical score consists of four staves, likely representing a piano and violin duo. The music is in 4/4 time, with a key signature of two flats (B-flat and E-flat). The score is divided into six measures, with a 3/4 time signature change occurring at the end of the fifth measure. The dynamics are marked as *ff* (fortissimo) and *p cresc.* (piano crescendo). The notation includes various rhythmic values, slurs, and accents.

**Staff 1 (Violin):** Measure 1: *ff*; Measure 2: *p cresc.*; Measure 3: *ff*; Measure 4: *ff*; Measure 5: *ff*; Measure 6: *ff*.

**Staff 2 (Piano):** Measure 1: *p cresc.*; Measure 2: *ff*; Measure 3: *p cresc.*; Measure 4: *ff*; Measure 5: *ff*; Measure 6: *ff*.

**Staff 3 (Piano):** Measure 1: *p cresc.*; Measure 2: *ff*; Measure 3: *ff*; Measure 4: *ff*; Measure 5: *ff*; Measure 6: *ff*.

**Staff 4 (Piano):** Measure 1: *ff*; Measure 2: *p cresc.*; Measure 3: *ff*; Measure 4: *ff*; Measure 5: *ff*; Measure 6: *ff*.

**furiosamente** ♩ = 161  
18: electro 1B

gliss. of a Major 2nd

gliss.

gliss. of a Major 3rd

**ff** not synchronised

gliss. of a Major 2nd

gliss. of a Major 3rd

**ff** not synchronised

gliss. of a Major 2nd

gliss. of a Major 3rd

**ff** not synchronised

gliss. of a Perfect 4th

234

gliss.

gliss. of a Perfect 4th

gliss.

gliss. of a Perfect 4th

sul D

sul G

41

Molto ritardando

237

(end of video 11)

42

(temple bell)

(end of electro 1B)

circular rubbing of the temple bell or iPad dream-like improvisation



mute all strings with the left fingers;  
play 23 bow strokes with exaggerated bow pressure;  
retake at the end of each stroke;  
dynamic: *fff*, then progressive diminuendo;

= 23"

*p - pp*

= 23"

= 23"

= 23"

4/4

4/4

4/4

13 4/4

4/4

43 ♩ = 69

243

20: NYSE bell 2 and 21: video 12 + delay effect in real time

(resonance)

The musical score consists of three staves in 4/4 time. The top staff is a treble clef with a 'pizz.' instruction above the first measure and a 'mf' dynamic below the second measure. The middle staff is also a treble clef with a 'pizz.' instruction above the first measure and a 'mf' dynamic below the second measure. The bottom staff is a bass clef with a 'pizz.' instruction above the first measure and a 'mf' dynamic below the second measure. A box in the lower-left corner contains the text 'tempo from the downbeat independently from NYSE bell'. Below this box is the instruction 'bow down, pizz'. The score includes various musical notations such as notes, rests, and dynamic markings.

tempo from the downbeat  
independently from NYSE bell

bow down, pizz

249 **44**

(resonance)

Vivace ♩ = 172.5

(resonance)

Musical score for measures 249-255. The score is written for four staves: Violin I, Violin II, Cello/Double Bass, and Bass. The key signature has one flat (B-flat). The time signature changes from 4/4 to 3/4, then to 3/8, then to 7/8, and finally back to 4/4. The Cello/Double Bass part features triplets and a 5:4 ratio. The Bass part has a 5:4 ratio. The Violin I and II parts have a 5:4 ratio. The score includes markings for 'arco' and 'subito f'.

256 **45** ♩ = 69

(resonance)

Musical score for measures 256-261. The score is written for four staves: Violin I, Violin II, Cello/Double Bass, and Bass. The key signature has one sharp (F-sharp). The time signature is 4/4. The Cello/Double Bass part features triplets and a 5:4 ratio. The Bass part has a 5:4 ratio. The Violin I and II parts have a 5:4 ratio. The score includes markings for 'pizz.' and 'arco'.

Musical score for measures 262-265. The score is written for a string quartet with two staves per part. The key signature has one sharp (F#) and the time signature is 3/4. The music features a melodic line in the upper staves and a bass line in the lower staves. A triplet of eighth notes is marked in the upper staff at measure 263. The dynamic marking *più f* is present in both staves. The section ends with a double bar line and repeat dots.

Musical score for measures 265-270. The score is written for a string quartet with two staves per part. The key signature has one sharp (F#) and the time signature is 3/4. The music features a melodic line in the upper staves and a bass line in the lower staves. A 5:4 ratio is indicated above the first staff in measure 265. The dynamic marking *più f* is present in both staves. The word *arco* is written above the upper staves. The section ends with a double bar line and repeat dots. A box containing the word *Tempo!* is located in the lower right corner of the score.

**47** Vivace ♩ = 115 or ♩ = 172.5 (♩ always = ♩)  
 3. "All Desire"  
 (without delay effect)

268

take bow, arco  
*sempre f*  
*sempre f*  
*molto vib.*  
*molto vib.*  
*sempre f*

274

Vib. e-sounds

**48** 22: electro 6 "e-vib"

**49**

*pizz.*  
*arco*  
*sostenuto*  
*pizz.*

50

51

Musical score for measures 50-51. The score consists of five staves. The top staff is a single melodic line with various time signatures (3/4, 2/4, 3/4, 3+2/8, 3/4, 2/4, 3/4). The second and third staves are treble clefs with rhythmic accompaniment. The fourth staff is a double bass clef with a melodic line. The fifth staff is a bass clef with a melodic line. Performance markings include *molto vib.*, *pizz.*, *arco*, and *molto vib.* again.

52

53

Musical score for measures 52-53. The score consists of five staves. The top staff is a single melodic line with time signatures 2/4, 3/4, 2/4, 3/4, 3/4, 4/4. The second and third staves are treble clefs with rhythmic accompaniment. The fourth staff is a double bass clef with a melodic line. The fifth staff is a bass clef with a melodic line. Performance markings include *sostenuto*, *arco*, and *pizz.*.



297 **54**

Musical score for measures 297-302. The score is in 4/4 time and features a key signature of one sharp (F#). It consists of five staves: Violin I, Violin II, Viola, Cello, and Double Bass. The Violin I part begins with a *pizz.* (pizzicato) instruction and later switches to *arco* (arco). The Violin II part starts with *arco* and later switches to *pizz.*. The Viola, Cello, and Double Bass parts provide harmonic support with various rhythmic patterns and articulations. Measure numbers 297, 298, 299, 300, 301, and 302 are indicated at the end of each staff line.

303 **55**

**56**

Musical score for measures 303-308. The score is in 4/4 time and features a key signature of one sharp (F#). It consists of five staves: Violin I, Violin II, Viola, Cello, and Double Bass. The Violin I part begins with a *pizz.* (pizzicato) instruction and later switches to *arco* (arco). The Violin II part starts with *arco* and later switches to *pizz.*. The Viola, Cello, and Double Bass parts provide harmonic support with various rhythmic patterns and articulations. Measure numbers 303, 304, 305, 306, 307, and 308 are indicated at the end of each staff line.

309 **57** ♩ = 115

Musical score for measures 309-312. The score is in 3/4 time with a tempo of 115. It features a grand staff with five staves: two treble clefs, two alto clefs, and one bass clef. The top staff contains long, sustained chords with fermatas. The lower staves contain rhythmic accompaniment. A double bar line is present after measure 312. The word "arco" is written above the second and third staves in measure 312.

313

Musical score for measures 313-316. The score is in 3/4 time. It features a grand staff with five staves: two treble clefs, two alto clefs, and one bass clef. The top staff contains long, sustained chords with fermatas. The lower staves contain rhythmic accompaniment. A double bar line is present after measure 316. The word "ff" (fortissimo) is written below the second, third, and fourth staves in measure 314. The word "(resonance)" is written in green above the second staff in measure 315. The time signature changes to 3/4 at the end of measure 315.

Lento ♩ = 1 second

319 **58**

all players: do not synchronise the whispered *f* text and the three chords *p non vibrato*

[a natural] [a #]

Man de-sires al-ways ac-cor-ding to the de-sire of the O-ther

*p non vib.*

*p non vib.*

*p non vib.*

*p non vib.*

*p non vib.*

326 [g] [e # and f#] [e # and e natural] [f #]

All de-sire is de-sire to Be

*p non vib.*

*p non vib.*

*p non vib.*

*p non vib.*

*p non vib.*

**59** Presto ♩ = 151

336 **delay in real time**

Musical score for measures 336-340. The score is in 4/4 time and consists of four staves: Violin I, Violin II, Viola, and Cello/Double Bass. The music is marked *f* (forte) and *molto vib.* (molto vibrato). The first two staves have a *f* dynamic, while the third and fourth staves have a *ff* dynamic. The tempo is marked *Presto* with a quarter note equal to 151 beats per minute. The score includes various rhythmic patterns, including sixteenth and thirty-second notes, and rests. The key signature has one flat (B-flat).

**60**

341

Musical score for measures 341-345. The score is in 3/4 time and consists of four staves: Violin I, Violin II, Viola, and Cello/Double Bass. The music is marked *ff* (fortissimo). The score includes various rhythmic patterns, including sixteenth and thirty-second notes, and rests. The key signature has one flat (B-flat). The score ends with a *rit.* (ritardando) marking and a double bar line. The dynamic *pp* (pianissimo) is indicated at the end of the piece.

23: NYSE bell 3  
strike  
temple bell