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Hypernavigation

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Hypernavigation

for string quartet

Vedran Mehinovic | 2011

Hypernavigation is a meditation on the next to impossible task of navigating multiple, disparately-moving dimensions of spacetime. If our three-dimensional existence is indeed embedded within a more complex dimensional reality, pinpointing and traversing locations in multiple universes will be the next great feat of understanding. *Hypernavigation* is also a celebration of the constant state of quantum flux, as well as vibration (as expressed in M-theory and certain ancient teachings), the basis of all things.

NOTES:

Accented tied notes indicate speeds of vibrato. Bow vibrato (series of connected bow accents) is used as well, later in the piece (marked similarly).

NV - non vibrato

RV - regular vibrato

RBV- regular bow vibrato

MV - molto vibrato

MBV - molto bow vibrato

Vibrati notated with accents automatically replace the "non," "regular," or "molto" markings. During standard (non-bow) vibrato, if one of the pitches of a diad is an open string, naturally only the stopped string will be vibrated.

Bow markings can be viewed as another form of vibrato. No other vibrati should be employed in such sections.

MBTB - move bow towards bridge

MBAB - move bow away from bridge

MBTF - move bow towards fingerboard

MBAF - move bow away from fingerboard

SIP - start increasing (bow) pressure

SLP - start lessening pressure

EP - extra pressure (raspier sound, incidental harmonics)

RP - regular pressure

Diamond-shaped noteheads (except in the last four bars) mean that the indicated pitch should be pressed lightly, producing a harmonic (which will not necessarily be the indicated pitch). The harmonics are not always of the most reliable kind. Doing your best to achieve them should suffice, as their main purpose is the change in color.

A sharp marking with one vertical line indicates 1/4 sharp.

A dashed flat marking indicates 1/4 flat.

Tremoli are marked with only one slash, to avoid confusion when applied to notes of different values. All tremoli are as fast as possible.

Slurred notes should sound connected, but do not necessarily have to be played under one bow.

♩ = 65

fff sempre, tutti
RV, tutti

Violin I

Violin II

Viola

Cello

Vln I

Vln II

Vla

Cilo

Vln I

Vln II

Vla

Cilo

RV

Vln I

Vln II

Vla

Clo

5 5 5 5 5

3 3

MV

Vln I

Vln II

Vla

Clo

10

3 3 3 3

MBTB

pont.

Vln I

Vln II

Vla

Clo

3 3 3 3 3 3

EP, RV

MBTB

pont.

5 5 5 5

(pont.)

MBAB

MBTB

Vln I

Vln II

Vla

Clo

(pont.) EP

MBAB

pont.

non pont.

15

pont. (EP)

Vln I

Vln II

Vla

Clo

(pont.) EP

non pont.

EP, MV

pont., RP

Vln I

Vln II

Vla

Clo

RV

SLP

(pont., EP) MV

MBAB

MBTB

MBAB

Vln I

Vln II

Vla

Clo

RP, MV

EP

non pont. (EP)

SLP

pont. (EP)

Vln I

Vln II

Vla

Clo

non pont., EP

MV

EP

RP

[pont.] EP

SLP

Vln I

Vln II

Vla

Clo

RP

MBTB

MBTB

MBTB

RP

[pont.]

Violin I: *pont., EP* (5)

Violin II: *pont.*

Viola: *pont., EP* (5) MBAB

Cello: MBAB non pont., EP MV

Violin I: (5) (5) (5) (5) (5) (*pont., EP*)

Violin II: non pont., EP MBTB

Viola: non pont.

Cello: EP

Violin I: MBAB

Violin II: *pont.*

Viola: EP (3) (3) (3) (3)

Cello:

RP, MV
IV
non pont.
SIP

Vln I

Vln II

Vla

Cllo

EP
[EP] 3
[pont.] EP
5
MBAB
5
MBTB
pont.
6
6
6
6
6
6

Vln I

Vln II

Vla

Cllo

35
MBTB
3
3
3
3
pont.
non pont. [EP]
pont., MV
[pont.]
SIP
6
[pont.] EP
3
3
MBTF
3
3

Vln I

Vln II

Vla

Cllo

Vln I (pont., EP)
 Vln II MV
 Vla EP
 Cllo tasto (EP)

Vln I 40
 Vln II RP
 Vla (pont.) EP MBAB
 Cllo [tasto] EP MBAF

Vln I (pont., EP) MBAB
 Vln II MBTB, SIP
 Vla non pont. (EP)
 Cllo non tasto, MV

non pont., MV (EP)

Vln I

Vln II

Vla

Cilo

3

3

pont., EP

(pont.) EP

EP, MV

MBTF

8

RP

MBTB, SIP

45

Vln I

Vln II

Vla

Cilo

RP

tasto (EP)

MBAF

non tasto

pont., EP

(pont.) EP, MV

MBTB

Vln I

Vln II

Vla

Cilo

3

3

3

5

5

5

5

RP

MBTB

3

3

3

3

pont. 6

6

50

Vln I SIP 6 6 6 6 6 6 EP 6 6 6 6

Vln II (pont.) EP, MV MBAB

Vla pont. 3 3 5 5 5 5 5 5

Clo (pont.) RP *f*

Vln I (pont., EP)

Vln II non pont. (EP)

Vla (pont.) 5 5 5 5 5 5 5 5

Clo

Vln I MBAB, SLP

Vln II EP SLP

Vla 5 5 3 3 3 3 3 3

Clo MBAB

55

non pont., RP
 f
 RP, MV
 [pont.] MV
 non pont.
 II III *tasto*
 mf

mf
 f
 MBAB
 non pont.
 MBAF

60

MV
 mf
 MBTB
 non *tasto*
 mf

MBTF

Vln I

Vln II

Vla

Clo

tasto

pont., EP

f

pont.

MBTB

pont., random vib.*

Vln I

Vln II

Vla

Clo

(tasto)

MBAB

[pont.]

f

EP

(mf)

tasto (EP)

SIP

65 MBTF

Vln I

Vln II

Vla

Clo

(tasto, EP)

MBAF, SLP

MBAB

non pont.

(pont.) EP

SLP

mf

*- like a neurotic flickering light

Vln I *pont.*
 Vln II *non tasto, RP, MV*
 Vla *tasto* *mf* *SIP* *EP*
 Cilo *RP* *MBAB*

Vln I **70** *(pont.)* *MBAB*
 Vln II *MBTB* *p* *pont.*
 Vla *(tasto) EP* *mf* *MBAF, SLP*
 Cilo *non pont.* *(lower string slides down)*

Vln I *non pont.* *MBTF*
 Vln II *(pont.)* *mp* *non tasto* *MBTB*
 Vla *non tasto* *MBTB*
 Cilo *RP* *MBTF* *p*

Vln I *tasto*
 Vln II *tasto*
 Vla *tasto*
 Cllo *tasto*

MBAB [upper string slides up] pont.³

75
 Vln I *[tasto]*
 Vln II *non pont.*
 Vla *p*
 Cllo *p* [pont.]

MBAF MBTF MBAB

Vln I *non tasto*
 Vln II *tasto*
 Vla *non pont.*
 Cllo *MBTB* *pont., MV*

MBTB MBTF

80

Vln I: pont. MBAB

Vln II: MBAF

Vla: *tasto* *pp* (tasto) MV MBAF (beat 3)

Clo: (pont.) *pp* MBAB

Vln I: SIP EP RP, NV (vlins, vla) *mf pp* non pont. *

Vln II: SIP non *tasto*, EP *mf pp* non pont.

Vla: SIP non *tasto*, EP *mf pp* non pont.

Clo: non pont. (lower string slides down)

Vln I: *

Vln II: *

Vla: *

Clo: MBTB, SIP

* - bow vibrato (or slight accent, if single marking)

85

Vln I MBTB, SIP pont., EP MBAB, SLP non pont., RP, NV

Vln II

Vla

Clo pont., EP MBAB, SLP non pont., RP

mf *pp*

Vln I

Vln II

Vla MBTB, SIP pont., EP MBAB, SLP non pont., RP, NV

Clo MBTB, SIP non pont., EP

mf *pp*

3

90

Vln I (NV)

Vln II MBTB, SIP pont., EP MBAB, SLP

Vla

Clo MBAB, SLP non pont., RP

mf *pp*

3

[lower string slides down]

Vln I: MBTB, SIP; pont., EP; MBAB, SLP; non pont., RP, NV
 Vln II: non pont., RP, NV; pont.; non pont. (NV)
 Vla: (NV); MBTB, SIP
 Cilo: MBTB, SIP

mf *pp*
 5 5 5 5

Vln I: pont.; non pont.
 Vln II: (rest)
 Vla: pont., EP; MBAB, SLP; non pont., RP, NV
 Cilo: pont., EP; MBTF, SLP

p *pp*
mf *pp*
 5 5 5 5 5

Vln I: MBTB, SIP; pont., EP; MBAB, SLP
 Vln II: pont.; non pont.
 Vla: MBTB, SIP
 Cilo: *tasto*; MBAF

mf *pp*
pp
 3 3 3 3

non pont., RP

Vln I *pp* (NV)

Vln II MBTB, SIP

Vla pont., EP *mf* SLP

Cilo non tasto MBTB, SIP

Vln I MBTB, SIP 100 pont., EP MBAB, SLP *mf* MBV non pont., RP

Vln II pont., EP MBAB, SLP *mf* non pont., RP *pp* (NV)

Vla *p* RP (pont.) NV, non pont. MBTB, SIP

Cilo pont., EP *mf* MBTF, SLP

non pont., RP

Vln I *p* RV

Vln II

Vla pont., EP *mf* MBAB, SLP non pont. *p* RP

Cilo tasto, RP *pp*

MBTB, SIP pont., EP MBAB, SLP

Vln I

Vln II

Vla

Clo

mf

mf

RV

p

MBTB, SIP

MBTB, SIP

105 non pont., RP pont.

Vln I

Vln II

Vla

Clo

p NV

p

MBTB

pont., EP SLP MBV (pont.)

mf

p

pont., EP MBAB, SLP

f

non pont. MBTB, SIP pont., EP

Vln I

Vln II

Vla

Clo

pont., EP

non pont., RP

f

NV (pont.)

mp

p NV

non pont., RP, MV

MBTF

mf

MBAB, SLP

110 non pont., RP

Vln I

Vln II

Vla

Clo

f

p

tasto, EP

SLP

tasto, RV

MBAF

p

(upper string slides up)

Vln I

Vln II

Vla

Clo

SIP

EP

SLP

RP

RP

MBAF

non tasto

non tasto

MBTB, SIP

f

mf

mf

f

mf

Vln I

Vln II

Vla

Clo

f

mf

MBTB, SIP

pont., EP

MBAB, SLP

MBTB, SIP

f

pont., EP

MBAB, SLP

non pont., RP

f

mf

Violin I (Vln I): *ff* (tasto, EP), SLP, *mf* NV, RP (tasto), MBTB, SIP, *ff* (pont., EP)

Violin II (Vln II): *ff* (non tasto), *ff* (lower string slides down), MBTF

Viola (Vla): non tasto, RP, *mf*, SIP, *ff* (tasto, SLP)

Cello (Cilo): *p*, MBTB, SIP, MBAB, SLP, non pont., RP, *ff*, MBV, MBAF, MBV, *mf*

Measure 125: *p* (tasto, MBV), *f* (EP), *ff* (MBTF), *ff* (non pont., EP), *mf* (MBV)

Vln I SLP RP
 Vln II non tastq MBTB, SIP p
 Vla MBTF, SIP mf
 Cilo MBTF, SIP
 Vln II pont., EP ff
 Vla RP MBTB, SIP mf
 Cilo MBTF, SIP
 Cilo tastq, EP ff

Vln I f
 Vln II SLP RP (pont.) p 130
 Vln II mf
 Vla pont., EP
 Vla ff MBV
 Cilo MBTB, SLP
 Cilo mf
 Cilo pont., RP

Vln I f p
 Vln II MBAB non pont. p
 Vln II ff
 Vla MBTF, SIP
 Vla tastq, EP ff
 Cilo MBAB
 Cilo non pont. 6 6 6 ff

non tasto

Vln I *mf*

Vln II *f* random bow vib. MBAB

Vla *f* RP *mf*

Cilo *f* EP MBTB, SLP

Vln I *ff* RV MBTB pont. *mf*

Vln II non pont., MBV [lower string slides down] NV *ff*

Vla

Cilo pont., RP, MV *ff*

Vln I *p*

Vln II *mf*

Vla *f* SIP *ff* EP

Cilo *mf* MBAB

145

Vln I *mf* MBAB

Vln II *ff* MBV

Vla SLP *mf* RP

Clo non pont.

Vln I *f* non pont. *mf*

Vln II *ff*

Vla MBTF, SIP *ff* *f* MBTF, EP SLP

Clo *ff* MBTF

150

Vln I MBTB, SIP, MBV *ff* pont., EP

Vln II *f* *mf*

Vla *f* RP MBAF

Clo *mf* MBTB, SIP

Vln I MBTF *p* *tasto* 3 3 3

Vln II *ff* 5 5 5 *p* 5

Vla 6 6 6 6 non pont., RP

Cilo MBTF, SIP *tasto*, EP, MBV

Vln I 160 *mf* *p* non *tasto*

Vln II 5 5 5

Vla *mf*

Cilo MBTB pont. (EP, MBV)

Vln I *f*

Vln II 6 6 6 6 *mf*

Vla *f* MBTB, SIP 3

Cilo MBAB, SLP non pont., RP *mf*

Vln I

Vln II

Vla

Cilo

f

ff

f

MBTB, SIP

pont., EP

MBAB, SLP

165

Vln I

Vln II

Vla

Cilo

p

ff

ff

pont., EP

non pont., RP

MBV

MBTF, SLP

Vln I

Vln II

Vla

Cilo

f

mf

mf

MBTB, SIP

tasto, RP

SIP

pont., EP

170

Vln I: pont., EP; MBAB, SLP

Vln II: EP; MBTB

Vla: f; MBV 28

Clo: MBAB, SLP; non pont., RP; f

Vln I: non pont., RP; f

Vln II: pont., MBV; MBAB, SLP

Vla: mf; 3

Clo: 3

Vln I: non pont., RP; SIP; ff

Vln II: f; EP; ff

Vla: ff; MBV; 5

Clo: ff

175

Vln I *ff* *mf* *ff* *RP* *f* *pont., EP*

Vln II *f* *ff* *f*

Vla *f* *ff* *MBTB, SIP* *pont., EP* *MBAB, SLP*

Cilo *MBTF, SIP* *5* *5* *5* *5* *5* *tasto, EP*

Vln I *f* *non pont., RP* *pont., EP, MBV*

Vln II *ff* *3* *3* *3* *5* *5* *5* *5*

Vla *mf* *non pont., RP*

Cilo *MBAF, SLP* *non tasto, RP* *f*

180

Vln I *mf* *ff* *f* *ff* *MBV*

Vln II *f* *ff* *mf*

Vla *f*

Cilo *5* *5* *5* *5* *ff*

Vln I *fff*

Vln II *ff* *f*

Vla *mf* *ff* pont., EP, MBV

Clo *f* non pont., RP

Vln I MBV

Vln II MBV *ff* RBV *mf* pont., EP *ff*

Vla *f* non pont., RP *ff* 5 5 5

Clo *ff*

185

Vln I 5:4

Vln II non pont., RP *f* *mf*

Vla pont., EP *f* non pont., RP, RBV pont., EP

Clo RBV *f* *ff*

Vln I

Vln II

Vla

Clo

5

7:8

non pont., RP

MBV

fff

pont., EP

non pont., RP

ff MBV

f

f

190

Vln I

Vln II

Vla

Clo

MBV

NV

3

5

pont., EP

non pont., RP

ff

f

ff

pont., EP

non pont., RP

ff

5:4

Vln I

Vln II

Vla

Clo

pont., EP, MBV

non pont., RP

3:2

5:4

5:4

3

3

5

5

3

8:6

f

ff

fff

pont., EP, MBV

fff

Musical score for Violin I, Violin II, Viola, and Cello, measures 195-215. The score includes various performance instructions such as "MBV", "non pont., RP", "pont., EP", "NV", "mf", and "fff". It also features technical markings like "200", "5:4", "7:6", "3", "5", "6", and "7:8".

Measure 195: Violin I (Vln I) starts with "MBV". Violin II (Vln II) has "non pont., RP" and a "5:4" marking. Viola (Vla) has "MBV". Cello (Cilo) has "pont., EP" and "NV".

Measure 196: Violin I has "200" above it. Violin II has "5:4". Viola has "NV". Cello has "MBV".

Measure 197: Violin I has "non pont., RP". Violin II has "3" and "6". Viola has "V". Cello has "3" and "5".

Measure 198: Violin I has "non pont., RP" and "(7:8)". Violin II has "3", "6", "6", and "5". Viola has "V". Cello has "5", "5", "5", and "5". Dynamics are "mf" and "fff".

Measure 199: Violin I has "MBV" and "pont., EP". Violin II has "MBV". Viola has "V". Cello has "7:6" and "V".

Measure 200: Violin I has "MBV". Violin II has "3", "5", and "5". Viola has "MBV". Cello has "pont., EP" and "non pont., RP".

Measure 201: Violin I has "MBV". Violin II has "5". Viola has "MBV". Cello has "3".

Measure 202: Violin I has "MBV". Violin II has "5". Viola has "MBV". Cello has "3".

205

Vln I: *pont., EP* (measures 205-208), *non pont., RP* (measures 209-210).
 Vln II: *pont., EP* (measures 205-208), *non pont., RP* (measures 209-210).
 Vla: *pont., EP* (measures 205-208), *non pont., RP* (measures 209-210).
 Cllo: *pont., EP* (measures 205-208), *non pont., RP* (measures 209-210).
 Ratios: 7:8 (Vln I, Vln II), 7:6 (Vla), 5 (Cllo).

Vln I: *NV* (measures 205-208), *MBV* (measures 209-210).
 Vln II: *5:4* (measures 205-208), *3* (measures 209-210).
 Vla: *5* (measures 205-208), *7:8* (measures 209-210).
 Cllo: *3:2* (measures 205-208).

210

Vln I: *pont., EP, MBV* (measures 210-213), *non pont., RP* (measures 214-215).
 Vln II: *MBV* (measures 210-213), *3* (measures 214-215), *6* (measures 216-217), *6* (measures 218-219).
 Vla: *3* (measures 210-213), *EP* (measures 214-215), *7:6* (measures 216-219).
 Cllo: *pont., EP* (measures 210-213), *non pont., RP* (measures 214-215).

Vln I

Vln II

Vla

Clo

7:8

3

MBV

5

5

3

NV

7:8

Vln I

Vln II

Vla

Clo

pont., EP

non pont., RP

5:4

3

5

5

MBV

pont., EP

non pont., RP

MBV

215

Vln I

Vln II

Vla

Clo

7:8

3

3

3

3

3

6

pont., EP

MBV

3

3

pont., EP

5:6

Vln I MBV
 Vln II
 Vla
 Cilo

non pont., RP 5:4
 non pont., RP 3
 EP

Vln I 220
 Vln II
 Vla
 Cilo

MBV
 non pont., RP
 pont., EP
 RP
 3:2
 7:8
 6
 6
 5
 5

Vln I
 Vln II
 Vla
 Cilo

MBV
 pont., EP
 non pont., RP
 pont., EP
 non pont., RP
 5:4
 5
 5
 7:8
 6

Vln I V

Vln II NV MBV

Vla EP 7:6 RP 5 5

Clo pont., EP non pont., RP

225

Vln I pont., EP non pont., RP

Vln II MBV

Vla 9:8 MBV

Clo V V 5:6 V NV tasto, EP 3

Vln I 6 6

Vln II 5 5 5:4 3 3

Vla 5:4 5 5 5

Clo 3 3 3 pont., EP non pont., RP

235

tasto

MV until indicated otherwise

This system contains measures 235 through 240. The first staff (Vln I) features a melodic line with triplets and a 'tasto' marking. The second staff (Vln II) has a rhythmic accompaniment. The third staff (Vla) and fourth staff (Cilo) provide harmonic support. A dynamic marking 'MV until indicated otherwise' is present.

pont., EP

non pont., RP

EP

8:6

This system continues measures 235 through 240. The first staff (Vln I) has quintuplets and dynamic markings 'pont., EP', 'non pont., RP', and 'EP'. A 'V' marking is also present. The second staff (Vln II) has a melodic line. The third staff (Vla) and fourth staff (Cilo) continue the harmonic support. A dynamic marking '8:6' is present.

240

RP, MBV

MV until indicated otherwise

This system contains measures 240 through 245. The first staff (Vln I) has dynamic markings 'RP, MBV' and 'MV until indicated otherwise'. The second staff (Vln II) has a melodic line. The third staff (Vla) and fourth staff (Cilo) provide harmonic support.

Vln I

Vln II

Vla

Cilo

ff

ff

Vln I

Vln II

Vla

Cilo

ff

245

Vln I

Vln II

Vla

Cilo

f

Vln I

Vln II

Vla

Cilo

f

250

Vln I

Vln II

Vla

Cilo

f

Vln I

Vln II

Vla

Cilo

mp

f

Vln I

Vln II

Vla

Clo

255

Vln I

Vln II

Vla

Clo

Vln I

Vln II

Vla

Clo

Vln I *pp*

Vln II *pp*

Vla

Cilo

Vln I

Vln II

Vla *p*

Cilo *p*

Vln I

Vln II

Vla

Cilo

265

Musical score for measures 265-266, featuring Violin I, Violin II, Viola, and Cello. The score is written in treble clef for Violins and bass clef for Viola and Cello. The key signature has one sharp (F#). The music consists of sustained notes with long slurs, indicating a slow or sustained texture.

Musical score for measures 267-268, featuring Violin I, Violin II, Viola, and Cello. The score is written in treble clef for Violins and bass clef for Viola and Cello. The key signature has one sharp (F#). The music consists of sustained notes with long slurs. A *pp* (pianissimo) dynamic marking is present in the Viola part in measure 268.

270

Musical score for measures 270-271, featuring Violin I, Violin II, Viola, and Cello. The score is written in treble clef for Violins and bass clef for Viola and Cello. The key signature has one sharp (F#). The music consists of sustained notes with long slurs.

Vln I

Vln II

Vla

Clo

Vln I

Vln II

Vla

Clo

MBV tutti

MBTB, SIP tutti

275

pont, EP tutti

f tutti

Vln I

Vln II

Vla

Clo