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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

5

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

Vln I

Vln II

Vla

Clo

pont. (EP)

non pont.

(pont.) EP

EP, MV

Vln I

Vln II

Vla

Clo

RV

SLP

(pont., EP) MV

MBAB

MBTB

pont., RP

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

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

35 MBTB 3 3 3 3 pont.  
non pont. [EP] 5 5 5 5  
pont., MV [pont.] SIP  
[pont.] EP 3 3 MBTF 3 3 6

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

Vln I 40  
 Vln II RP  
 Vla (pont.) EP MBAB  
 Cilo (tasto) EP MBAF

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

non pont., MV (EP)

Vln I

Vln II

Vla

Cilo

3

3

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 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

Vln I: *non pont., RP*  
 Vln II: *RP, MV*  
 Vla: *[pont.] MV*  
 Cilo: *non pont.* *tasto*  
*f* *mf*

Vln I: *mf*  
 Vln II: *f*  
 Vla: *MBAB* *non pont.*  
 Cilo: *MBAF*

60

Vln I: *MV*  
 Vln II: *mf*  
 Vla: *MBTB*  
 Cilo: *non tasto*  
*mf*

MBTF

Vln I *tasto*

Vln II *pont., EP*

Vla *f* *pont.*

Clo *MBTB* *pont., random vib.\**

Vln I *(tasto)*

Vln II *MBAB* *(pont.)* *tasto (EP)*

Vla *f*

Clo *SIP* *EP* *(mf)*

65 MBTF

Vln I

Vln II *(tasto, EP)* *MBAF, SLP*

Vla *MBAB* *non pont.*

Clo *(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]

3 3 3 3 3 3 3 3

pont.<sup>3</sup> 3 3 3

5 5 5 5

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

*pp* MBAF

I MBTF MBAB

I *p* [pont.]

3 3

5 5 5 5

non *tasto*

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

MBTB

MBTF MBAB

MBTF

MBTB

pont., MV



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

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

Vln I

Vln II

Vla

Cilo

*mf*      *pp*

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

*mf*      *pp*

Vln I

Vln II

Vla

Cilo

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

*mf*      *pp*

MBTB, SIP      pont., EP

*mf*      *pp*

*mf*<sup>3</sup>

90

[NV]

Vln I

Vln II

Vla

Cilo

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

*mf*      *pp*

MBAB, SLP      non pont., RP

*pp*

[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  
 Cllo MBTB, SIP

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

Vln I pont. non pont.  
 Vln II  
 Vla pont., EP MBAB, SLP non pont., RP, NV  
 Cllo pont., EP MBTF, SLP

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

95 Vln I MBTB, SIP pont., EP MBAB, SLP  
 Vln II pont. non pont.  
 Vla MBTB, SIP  
 Cllo *tasto* MBAF

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

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

Vln II pont., EP *mf* MBV non pont., RP

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*

Vln I: MBTB, SIP; pont., EP; MBAB, SLP  
 Vln II: *mf*  
 Vla: MBTB, SIP  
 Cllo: RV; MBTB, SIP; *p*

105  
 Vln I: non pont., RP; pont.  
 Vln II: *p* NV; MBTB  
 Vla: pont., EP; SLP; MBV (pont.); *mf*; *p*  
 Cllo: pont., EP; MBAB, SLP; *f*

Vln I: non pont.; MBTB, SIP; pont., EP  
 Vln II: pont., EP; non pont., RP; *f*  
 Vla: NV (pont.); *mp*; *p* NV  
 Cllo: non pont., RP, MV; MBTF; *mf*

MBAB, SLP

110 non pont., RP

Vln I

Vln II

Vla

Clo

*f*

*p*

5 5 5

tasto, RV

MBAF

tasto, EP

SLP

*f*

*p*

(upper string slides up)

Vln I

Vln II

Vla

Clo

SIP

EP

SLP

RP

5 5 5 5

*f*

*mf*

RP

MBAF

non tasto

*mf*

*f*

non tasto

MBTB, SIP

*mf*

Vln I

Vln II

Vla

Clo

*f*

*mf*

MBTB, SIP

pont., EP

MBAB, SLP

*f*

MBTB, SIP

5 5 5 5

*mf*

pont., EP

MBAB, SLP

non pont., RP

*f*

*mf*



Vln I: *ff* *non tasto* (tasto, EP, SLP, RP [tasto]) *mf* NV MBTB, SIP pont., EP *ff*  
 Vln II: *ff* (lower string slides down)  
 Vla: non tasto, RP (triplets)  
 Cilo: MBTB, SIP *p*

Vln I: NV, SLP RP (pont.) *mf*  
 Vln II: *mf* MBTF  
 Vla: *mf* SIP  
 Cilo: pont., EP MBAB, SLP non pont., RP *ff*

Vln I: 125 *p* MBAB, SIP non pont., EP *ff*  
 Vln II: *f* tasto, MBV MBAF,  
 Vla: EP MBTF tasto, SLP (triplets)  
 Cilo: MBV *mf*



SLP RP

Vln I

*p*

Vln II

non tastq MBTB, SLP

*mf*

pont., EP

*ff*

Vla

RP MBTB, SLP

*mf*

Clo

MBTF, SLP

tasto, EP

*ff*

Vln I

*f*

Vln II

SLP

RP (pont.)

*mf*

*p* 130

Vla

pont., EP

RP (pont.)

*ff* MBV

*mf*

Clo

MBTB, SLP

pont., RP

*mf*

Vln I

*f*

*p*

Vln II

MBAB

non pont.

*ff*

*p*

Vla

MBTF, SLP

tasto, EP

*ff*

Clo

MBAB

non pont.

*ff*

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

Vln II RBV

Vla SLP RP, MBAF

Clo MBTF<sub>6</sub> 6 6 6 6 *p* MBTB, SIP

*ff*

135 Vln I non pont., RP MBTF

Vln II MBTB, SIP

Vla SIP

Clo pont., EP MBTF, SLP

*p* *mf* *f non tasto* *ff*

Vln I *ff* *tasto* MBAF

Vln II pont., EP, MBV SLP RP

Vla EP, MBV SLP 8

Clo *mf* *tasto, RP* SIP

*ff* *mf*

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 RP *mf*

Clo non pont.

Vln I *f* non pont. *mf*

Vln II 3 3 3 3 3 3 3 3

Vla MBTF, SIP *ff* tasto, EP SLP

Clo *ff* MBTF

150

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

Vln II *f* *mf*

Vla RP MBAF *f*

Clo tasto MBTB, SIP *mf*

Vln I (pont., EP) *p* MBAB, SLP *ff*  
 Vln II MBTF, SIP *ff* *tasto*, EP  
 Vla non *tasto* *mf*  
 Cilo pont., EP *ff* MBV (lower string slides down)

Vln I non pont., RP *mf* MBTB pont.  
 Vln II MBAF, SLP *mf* non *tasto*, RP  
 Vla MBTB, SIP *f* pont., EP *ff*  
 Cilo MBAB, SLP non pont., RP *mf*

155 Vln I MBAB non pont. *f*  
 Vln II *f*  
 Vla MBAB, SLP  
 Cilo *ff*

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

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

Vla 6 6 6 6 non pont., RP *tasto*, EP, MBV

Cilo MBTF, SIP

160

Vln I *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*

*ff*

pont., EP

MBTF, SLP

non pont., RP

MBV

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; ff; EP

Vla: ff; MBV

Clo: ff



175

Vln I

Vln II

Vla

Cilo

MBTB, SIP

MBTF, SIP

pont., EP

MBAB, SLP

MF

FF

RP

F

non pont., RP

pont., EP, MBV

non pont., RP

MBAF, SLP

non tasto, RP

180

non pont., RP

pont., EP

non pont., RP

non tasto, RP

MBV

MF

FF

F

FF

MF

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 *f* non pont., RP *mf*

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

Clo *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 the first system, featuring Violin I, Violin II, Viola, and Cello. The score includes various performance markings such as **MBV**, **pont., EP, MBV**, and **non pont., RP**. Technical annotations include **5:4** and **5** (quintuplets), and **3** (triplets).

Musical score for the second system, starting at measure **195**. It includes Violin I, Violin II, Viola, and Cello parts. Performance markings include **V**, **NV**, **MBV**, **pont., EP**, and **non pont., RP**. Technical annotations include **5:4** and **5** (quintuplets), and **3** (triplets). A bracketed section in the Cello part is labeled **MBV, MBTB, SIP**.

Musical score for the third system, featuring Violin I, Violin II, Viola, and Cello parts. Performance markings include **V**, **NV**, and **pont., EP**. Technical annotations include **5:4** and **5** (quintuplets), and **3** (triplets). A bracketed section in the Cello part is labeled **5:6**.

Musical score for Violin I, Violin II, Viola, and Cello, measures 195-205. The score includes various performance instructions such as "MBV", "non pont., RP", "pont., EP", "NV", and dynamic markings "mf" and "fff". It also features technical markings like "200", "5:4", "7:6", "3", "5", "6", and "7:8".

205

Vln I: *pont., EP*, *non pont., RP*  
 Vln II: *pont., EP*, *non pont., RP*  
 Vla: *pont., EP*, *non pont., RP*  
 Cllo: *7:8*, *7:6*

Vln I: *NV*, *MBV*, *V*  
 Vln II: *5:4*, *3*, *3*  
 Vla: *5*, *5*, *7:8*  
 Cllo: *3:2*

210

Vln I: *pont., EP, MBV*, *non pont., RP*  
 Vln II: *MBV*, *3*, *6*, *6*  
 Vla: *3*, *3*, *EP*, *7:6*  
 Cllo: *pont., EP*, *non pont., RP*, *MBV*

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

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

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

Vln I  
 Vln II  
 Vla  
 Cilo

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



Vln I V

Vln II NV MBV

Vla EP 7:6 RP 5 5

Cilo pont., EP non pont., RP

225

Vln I pont., EP non pont., RP

Vln II MBV

Vla 9:8 MBV

Cilo 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

Cilo 3 3 3 pont., EP non pont., RP

230

Vln I: pont., EP | non pont., RP

Vln II: V | pont., EP | non pont., RP | 7:6 | *tasto*, EP

Vla: pont., EP | non pont., RP

Clo: MBV | RBV | V | 7:8 | MBTB

Vln I: *tasto*, EP | 5 | 5 | 5 | non *tasto*, RP

Vln II: non pont., RP | 3 | 3 | 3

Vla: pont., EP, MBV | *tasto*, EP, MBV

Clo: pont., EP, MBV | MV until indicated otherwise

Vln I: pont., EP | non pont., RP | RV

Vln II: 7:6 | *tasto*, MBV

Vla: non pont., RP | MV until indicated otherwise

Clo: MV until indicated otherwise

235

tasto

MV until indicated otherwise

Vln I

Vln II

Vla

Cilo

pont., EP

non pont., RP

EP

8:6

Vln I

Vln II

Vla

Cilo

240

RP, MBV

MV until indicated otherwise

Vln I

Vln II

Vla

Cilo

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

250

Vln I

Vln II

Vla

Cilo

Vln I

Vln II

Vla

Cilo

Vln I

Vln II

Vla

Clo

mp

Detailed description: This system contains measures 250 through 254. The first violin part (Vln I) features a melodic line with a sharp sign (F#) in the first measure. The second violin part (Vln II) has a melodic line with a double flat sign (Bb) in the second measure. The viola part (Vla) and cello part (Clo) provide harmonic support with sustained notes and some rhythmic movement. A dynamic marking of *mp* (mezzo-piano) is present in the second measure of the Vln II part.

255

Vln I

Vln II

Vla

Clo

mf

mf

Detailed description: This system contains measures 255 through 259. The first violin part (Vln I) has a melodic line with a sharp sign (F#) in the second measure. The second violin part (Vln II) has a melodic line with a double flat sign (Bb) in the second measure. The viola part (Vla) and cello part (Clo) provide harmonic support. Dynamic markings of *mf* (mezzo-forte) are present in the second measure of the Vla part and the third measure of the Clo part.

Vln I

Vln II

Vla

Clo

Detailed description: This system contains measures 260 through 264. The first violin part (Vln I) has a melodic line with a sharp sign (F#) in the first measure. The second violin part (Vln II) has a melodic line with a sharp sign (F#) in the second measure. The viola part (Vla) and cello part (Clo) provide harmonic support with sustained notes and some rhythmic movement.

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

MBV tutti

MBTB, SIP tutti

Vln I

Vln II

Vla

Clo

275

pont, EP tutti

*f* tutti

Vln I

Vln II

Vla

Clo