

Refractions

for string quartet

Tom Lane

Commissioned in 2021 by the Banbha Quartet with an Arts Council of Ireland Commissioning Award.
First performed 21st of September 2022.

Duration: Approximately 12 minutes

Programme note:

The title “Refractions” refers in part to the kaleidoscopic harmony of the piece's musical material – rotating clashing major thirds whose close proximity create colourful contrast. This material is then continuously refracted using various techniques to create alternating sections which explore the potential of this rich musical content. Structurally, the piece continuously returns to the musical material of the opening in a quasi-rondo form. The intervening passages develop different characteristics of the opening material until an extended melodic passage is reached about two thirds of the way through the piece. A densely chromatic rising section builds tension before returning to a reimagined version of the music from the beginning of the piece.

Performance notes:

All bowings are suggestions only and may be changed as necessary.

Multiple bow strokes should be used for any long notes, particularly when volume is required.

Tempos are flexible and may be varied as desired.

Stems marked with three strokes should be played as unmeasured *tremolo*.

Refractions

for String Quartet

Score

Tom Lane
January - July 2022

Flowing ♩ = c. 90

Violin 1

Violin 2

Viola

Cello

Vln. 1

Vln. 2

Vla.

Vlc.

Vln. 1

Vln. 2

Vla.

Vlc.

Refractions

2
11

Vln. 1

Vln. 2

Vla.

Vlc.

15

Vln. 1

Vln. 2

Vla.

Vlc.

18

Vln. 1

Vln. 2

Vla.

Vlc.

A

Refractions

22

Musical score for measures 22-24. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is two sharps (F# and C#). The time signature changes from 2/4 to 4/4 at measure 23. Dynamics include *f* (forte) and *p* (piano). The music features melodic lines with slurs and dynamic markings.

25

Musical score for measures 25-28. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is two sharps (F# and C#). The time signature is 4/4. Dynamics include *p* (piano) and *f* (forte). The music features melodic lines with slurs and dynamic markings.

B

pizz.

29

Musical score for measures 29-31. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is two sharps (F# and C#). The time signature is 4/4. Dynamics include *pp* (pianissimo) and *pizz.* (pizzicato). The music features rhythmic patterns with slurs and dynamic markings.

Refractions

4
32

Vln. 1

Vln. 2

Vla.

Vlc.

arco

p

35

Vln. 1

Vln. 2

Vla.

Vlc.

f

f pizz. >

f

f

C

39

Vln. 1

Vln. 2

Vla.

Vlc.

arco

p

arco

p

42

Vln. 1

Vln. 2

Vla.

Vlc.

f

f

46

Vln. 1

Vln. 2

Vla.

Vlc.

arco

p

arco

p

p

49

Vln. 1

Vln. 2

Vla.

Vlc.

f

f

f

f

Refractions

6
53

Vln. 1
Vln. 2
Vla.
Vlc.

p

56

Vln. 1
Vln. 2
Vla.
Vlc.

p

D

60

Vln. 1
Vln. 2
Vla.
Vlc.

f *p* *f*

Refractions

63

Vln. 1

Vln. 2

Vla.

Vlc.

p

f

67

Vln. 1

Vln. 2

Vla.

Vlc.

p

sfz subito *p*

sfz subito *p*

sfz

sfz

sfz

F

Grazioso

♩ = c. 64

74

rit.

Vln. 1

Vln. 2

Vla.

Vlc.

pp

pp

pp

pp

arco

arco

pp

pp

8
79

Refractions

Musical score for measures 79-82. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is one sharp (F#) and the time signature is 4/4. The dynamics are marked as *mf* (mezzo-forte) and *pp* (pianissimo). The music features a complex texture with overlapping lines and some rests.

Musical score for measures 83-86. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is one sharp (F#) and the time signature is 4/4. A box labeled 'G' is present above measure 85. The dynamics are marked as *mf* (mezzo-forte) and *p* (piano). The music features a complex texture with overlapping lines and some rests.

Musical score for measures 87-90. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). The key signature is one sharp (F#) and the time signature is 4/4. The dynamics are marked as *mf* (mezzo-forte) and *p* (piano). The music features a complex texture with overlapping lines and some rests.

91 Refractions 9

Vln. 1

Vln. 2

Vla.

Vlc.

ff

p

(V)

96

Vln. 1

Vln. 2

Vla.

Vlc.

sfz subito p

ppp

(V)

H Flowing ♩ = c. 90

103

Vln. 1

Vln. 2

Vla.

Vlc.

p

Refractions

10
106

Vln. 1

Vln. 2

Vla.

Vlc.

110

Vln. 1

Vln. 2

Vla.

Vlc.

113

Vln. 1

Vln. 2

Vla.

Vlc.

Refractions

117

Vln. 1 *p*

Vln. 2 *p*

Vla. *p*

Vlc. *p*

120

Vln. 1

Vln. 2

Vla.

Vlc.

I

124

Vln. 1 *f* *p* *f*

Vln. 2 *f* *p* *f*

Vla. *f* *p* *f*

Vlc. *f* *p* *f*

12
127

Refractions

Vln. 1

Vln. 2

Vla.

Vlc.

p

f

J *poco meno mosso*
♩ = c. 84

Vln. 1

Vln. 2

Vla.

Vlc.

f \triangleright *p*

(V)

138

Vln. 1

Vln. 2

Vla.

Vlc.

\triangleright *p*

f \triangleright *p*

Refractions.

rit.

145

Vln. 1

Vln. 2

Vla.

Vlc.

f *p* *ppp* *p* *f*

Con moto

K

$\text{♩} = \text{c. } 94$

151

Vln. 1

Vln. 2

Vla.

Vlc.

p leggiero

155

Vln. 1

Vln. 2

Vla.

Vlc.

pp *mf*

14
159

Refractions

Vln. 1

Vln. 2

Vla.

Vlc.

163

Vln. 1

Vln. 2

Vla.

Vlc.

mf

167

Vln. 1

Vln. 2

Vla.

Vlc.

p

mf

p

Refractions

L

171

Vln. 1

Vln. 2

Vla.

Vlc.

subito p

Detailed description: This system contains measures 171 through 174. It features four staves: Violin 1, Violin 2, Viola, and Violoncello. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The music is characterized by a complex, multi-measure rest pattern in the first measure of each system, followed by rhythmic patterns in the subsequent measures. A dynamic marking of *subito p* (suddenly piano) is present in the first measure of each system. The notation includes various note values, rests, and slurs.

175

Vln. 1

Vln. 2

Vla.

Vlc.

mf

Detailed description: This system contains measures 175 through 178. It features four staves: Violin 1, Violin 2, Viola, and Violoncello. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The music consists of rhythmic patterns across all staves. A dynamic marking of *mf* (mezzo-forte) is present in the first measure of the Violoncello staff. The notation includes various note values, rests, and slurs.

179

Vln. 1

Vln. 2

Vla.

Vlc.

mf

Detailed description: This system contains measures 179 through 182. It features four staves: Violin 1, Violin 2, Viola, and Violoncello. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The music consists of rhythmic patterns across all staves. A dynamic marking of *mf* (mezzo-forte) is present in the first measure of each staff. The notation includes various note values, rests, and slurs.

Refractions

192

Vln. 1

Vln. 2

Vla.

Vlc.

G.P.

G.P.

G.P.

G.P.

N *Misterioso*

197

$\text{♩} = \text{c. } 58$

Vln. 1

Vln. 2

Vla.

Vlc.

sul G sul tasto

ppp

sul C sul tasto

ppp

199

sul tasto

Vln. 1

Vln. 2

Vla.

Vlc.

ppp

sul tasto

ppp

Refractions

18
201

Vln. 1

Vln. 2

Vla.

Vlc.

Musical score for measures 18-201. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). Vln. 1 plays a long note with a triplet ending. Vln. 2 and Vla. play triplet eighth notes. Vlc. has a long note with a triplet ending.

ord.

203

pp

Vln. 1

Vln. 2

Vla.

Vlc.

Musical score for measures 203-205. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). Vln. 1 plays a long note with a triplet ending. Vln. 2 and Vla. play triplet eighth notes. Vlc. has a long note with a triplet ending.

205

Vln. 1

Vln. 2

Vla.

Vlc.

Musical score for measures 205-207. The score is for four instruments: Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), and Violoncello (Vlc.). Vln. 1 plays a long note with a triplet ending. Vln. 2 and Vla. play triplet eighth notes. Vlc. has a long note with a triplet ending.

Refractions

207

Vln. 1

Vln. 2

Vla.

Vlc.

ord.

p

Musical score for measures 207-210. Vln. 1 has a long note with a slur and a triplet. Vln. 2, Vla., and Vlc. have triplet patterns. Vlc. starts with 'ord.' and 'p'.

209

Vln. 1

Vln. 2

Vla.

Vlc.

Musical score for measures 209-210. Vln. 1 has a long note with a slur and a triplet. Vln. 2, Vla., and Vlc. have triplet patterns.

211

Vln. 1

Vln. 2

Vla.

Vlc.

pp

Musical score for measures 211-214. Vln. 1 has a triplet and a slur. Vln. 2, Vla., and Vlc. have triplet patterns. Vlc. starts with 'pp'.

Refractions

Vln. 1

Vln. 2

Vla.

Vlc.

O

Vln. 1

Vln. 2

Vla.

Vlc.

pp

ord.

p

ord.

p

pp

poco accel.

Vln. 1

Vln. 2

Vla.

Vlc.

Poco più mosso ♩ = c. 68

Refractions

21

219

Violin 1: *p* *cresc.* (triplets)
Violin 2: *pp* *cresc.* (triplets)
Viola: *pp* *cresc.* (triplets)
Violoncello: *p* *cresc.* (triplets)

Measures 219 and 220. Each staff contains two measures of music. The first measure of each staff features a triplet of eighth notes. The second measure continues the triplet pattern. Dynamics range from *pp* to *p*, with a *cresc.* marking. The key signature has one sharp (F#).

221

poco a poco accelerando

Violin 1: *mf* *cresc.* (triplets)
Violin 2: *mf* *cresc.* (triplets)
Viola: *mf* *cresc.* (triplets)
Violoncello: *mf* *cresc.* (triplets)

Measures 221 and 222. Each staff contains two measures of music. The first measure of each staff features a triplet of eighth notes. The second measure continues the triplet pattern. Dynamics range from *mf* to *f*, with a *cresc.* marking. The tempo marking is *poco a poco accelerando*. The key signature has one sharp (F#).

223

Violin 1: *f* *cresc.* (triplets)
Violin 2: *f* *cresc.* (triplets)
Viola: *f* *cresc.* (triplets)
Violoncello: *f* *cresc.* (triplets)

Measures 223 and 224. Each staff contains two measures of music. The first measure of each staff features a triplet of eighth notes. The second measure continues the triplet pattern. Dynamics range from *f* to *f*, with a *cresc.* marking. The key signature has one sharp (F#).

22
225

Refractions

Vln. 1

Vln. 2

Vla.

Vlc.

ff *cresc.*

ff *cresc.*

ff *cresc.*

ff *cresc.*

$\text{♩} = c. 88$

accel.

P $\text{♩} = c. 74 (V)$

Vln. 1

Vln. 2

Vla.

Vlc.

fff

fff

fff

fff

ff (V)

ff

230

Vln. 1

Vln. 2

Vla.

Vlc.

p (V)

p

p

(V)

(V)

(V)

(V)

(V)

(V)

(V)

Q Refrations
Flowing ♩ = c. 90

238 rit.

Vln. 1 *ppp*

Vln. 2 *ppp*

Vla. *ppp*
p

Vlc. *ppp*
p

242

Vln. 1 *p*

Vln. 2 *p*

Vla. *p*

Vlc. *p*

246

Vln. 1

Vln. 2

Vla.

Vlc.

24
250

Refractions

8va-----

Vln. 1

Vln. 2

Vla.

Vlc.

R

254

Vln. 1

Vln. 2

Vla.

Vlc.

f

p — *f*

f

p — *f*

f

p — *f*

257

Vln. 1

Vln. 2

Vla.

Vlc.

p

f

p

f

p

f

S *Grazioso*
♩ = c. 64

Refractions

261

Musical score for measures 261-264. The score is for four staves: Vln. 1, Vln. 2, Vla., and Vlc. The key signature is two sharps (F# and C#) and the time signature is 4/4. The dynamics are marked *pp* (pianissimo). The first two staves (Vln. 1 and Vln. 2) have rests in the first measure. The Viola and Violoncello parts feature a long note in the first measure, marked with a *(V)* above it, indicating a breath mark. The music consists of eighth and quarter notes with some slurs.

265

T *Presto* ♩ = c. 130

Musical score for measures 265-267. The score is for four staves: Vln. 1, Vln. 2, Vla., and Vlc. The key signature is two sharps (F# and C#). The time signature changes from 4/4 to 5/4 in measure 266 and back to 4/4 in measure 267. The dynamics are marked *mf* (mezzo-forte). A *rit.* (ritardando) marking is present above the first staff in measure 266. The music features eighth and quarter notes with slurs.

268

Musical score for measures 268-271. The score is for four staves: Vln. 1, Vln. 2, Vla., and Vlc. The key signature is two sharps (F# and C#) and the time signature is 4/4. The dynamics are marked *mf* (mezzo-forte). The music features eighth and quarter notes with slurs and some rests in the first two measures.

Refractions
Grazioso ♩ = c. 64

283

Vln. 1

Vln. 2

Vla.

Vlc.

sffz

sffz

p

sffz

sffz

p

p

pp

pp

pizz.

pizz.

V