

An aerial photograph of a streambed, showing a network of small channels and pools of water. The rocks are light-colored and covered with patches of bright yellow moss or algae. A simple wooden bridge crosses one of the channels in the center of the image. The overall scene is natural and somewhat desolate.

Wheels

19tet guiter

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2021

about *Wheels*

Wheels was written in the Winter and Fall of 2021 for Daniel Lippel for solo guitar in 19-tone equal temperament. *Wheels* is a collection of six short pieces:

- I - After Villa-Lobos
- II - After Petrarch
- III - After Shivkumar Sharma
- IV - After Barrios
- V - After Brouer
- VI - Coda

As a classically-trained guitarist myself, this piece brings me back to consider some of my favorite classical guitar repertoire while at the same time exploring some of the quasi-tonal possibilities of the 19tet tuning system.

This piece must be performed on a 19-tone equal temperament guitar. I have used Easley Blackwood's 19tet notation, where sharps and flats from 12tet notation are repurposed to represent unique notes (F^b and C^b are omitted).

The guitar is tuned thusly and the guitar neck shown below is provided for reference:

C#	Db	D	D#	Eb	E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb	B	B#	C	C#	Db	D	D#	Eb	E
B	B#	C	C#	Db	D	D#	Eb	E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb	B	B#	C	C#	Db	D
G	G#	Ab	A	A#	Bb	B	B#	C	C#	Db	D	D#	Eb	E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb
D	D#	Eb	E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb	B	B#	C	C#	Db	D	D#	Eb	E	E#	F
A	A#	Bb	B	B#	C	C#	Db	D	D#	Eb	E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb	B	B#	C
E	E#	F	F#	Gb	G	G#	Ab	A	A#	Bb	B	B#	C	C#	Db	D	D#	Eb	E	E#	F	F#	Gb	G

Gtr. *sul pont.* *ord.* *mf* *p*

Gtr. *f* *sub. p* *f* *p* *mp* *f*

x5 *sul pont.* *ord.* *x8* *x3* *x5*

Gtr. *p* *mf* *mp* *mf* *f*

sul pont. *ord.* *x3* *x8* *x3* *x3* *x3* *sul pont.*

Gtr. *mp* *p* *mf* *p* *mp*

ord. *sul pont.* *ord.* *sul pont.* *ord.*

Gtr. *p* *f* *p* *ff*

x3 *sul pont.* *ord.* *sul pont.* *x3*

Gtr.

mp *f*

sul pont. → ord.

0 13 0 13 0 13 0 12 0 12 0 12 0 10 0 10 0 8 0 7 0 4

11 0 11 0 10 0 10 0 11 0 10 0 8 0 0 6 0 5 0 2 0 0

Gtr.

mp *f*

x3

4 4 4 5 5 5 2 2 5 4 7 8 10 12 13 16 16

2 0 2 0 3 0 3 0 0 0 3 2 5 6 8 10 11 14 0 0 0

Gtr.

p *mf* *p* *f*

sul pont. → ord.

16 16 16 14 15 14 13 12 11 10 8 7 5 2 0 3 5 5

14 0 14 14 13 13 0 14 0 15 14 13 12 11 10 8 7 5 2 0 3 0 8 8 0 3 0

Gtr.

mp *f*

x3

5 5 2 2 5 4 7 8 10 12 13 16 21 21

0 3 0 0 0 3 2 0 5 6 8 10 11 14 13 14 16 17 19 18 22 21 19 0

Gtr.

p *mp* *p* *mp* *p* *mf* *p* *mp* *p* *mf* *p*

sul pont. → ord. sul pont. → ord.

x5 x6 x5

21 20 24 24 23 29 28 27 26

19 0 18 0 22 0 22 0 21 27 26 25 0 24 0

6 II-After Petrarch ♩=56

Gtr.

Handwritten musical notation for the first system of guitar. The treble clef staff contains a melodic line with dynamics *f*, *mp*, *p*, *f*, *p*, and *f*. The bass clef staff shows fingerings: 15 15, 15 8, 0 0 0, 8, 15 8, and 15 8. Performance markings include accents (>), a triplet of eighth notes, and *sul pont.* and *sul tasto* directions.

Gtr.

Handwritten musical notation for the second system. The treble clef staff features a melodic line with dynamics *mp*, *p*, *mf*, *p*, *mp*, *f*, *p*, and *f*. The bass clef staff shows fingerings: 15 8, 0 0 0, 15 8, 0 0 0, 8 0 0, 15 8, 15 8, 0 0, 0 6, 0 4, 4, 11 6 0, 15 8, 15 8, 8. Performance markings include *fast but clear*, *sul pont.*, *L.V.*, *ord.*, *slow*, and *ord.*

Gtr.

Handwritten musical notation for the third system. The treble clef staff contains a melodic line with dynamics *p*, *mp*, *p*, *mf*, *p*, *mp*, and *p*. The bass clef staff shows fingerings: 0 8, 15 8, 0 15 8, 0 0 8, 15 8, 0 0 8, 15 8, 0 0 8, 15 7, 13 7, 13 5, 10 0, 0 0, 0 6, 0 4, 0 6, 0 4, 0 6, 0 4, 3. Performance markings include *sul pont.*, *sul tasto*, *slow*, and *slow*.

Gtr.

Handwritten musical notation for the fourth system. The treble clef staff shows a melodic line with dynamics *p*, *f*, and *sub.p*. The bass clef staff shows fingerings: 15 13 13, 15, 0 15 13, 0 14 12, 0 11 9, 8 8, 0 0, 7 7, 0 0, 6 7, 0 0, 5-7, 5 0, 7-5, 3, 5-4, 2. Performance markings include *sul pont.*

Gtr.

Handwritten musical notation for the fifth system. The treble clef staff contains a melodic line with dynamics *f*, *mp*, *mf*, *mp*, and *f*. The bass clef staff shows fingerings: 4-2, 2-1, 0 0 0, 0 0 0, 0 6, 0 4, 0 6, 0 4, 0 6, 0 4, 0 6, 0 4, 0 4, 0 4, 0 6, 10, 0 0, 0 6, 0 6, 19 0. Performance markings include *ord.*, *sul tasto*, *slow*, *slow*, *ord.*, and *L.V.*

$\text{♩} = 76$

Gtr.

slow slow

mp *mf* *mp* *mf* *f* *mf*

8va

8va

0 0 0 0 0 0 11 11 11 11

0 0 0 0 0 0 8 8 8 8

3 0 4 0 4 0 3 0 4 4 4 8 8 8 8 6 6

Gtr.

sul pont. L.V. ord. L.V.

P *mf* *mp* *P*

15 8 0 0 0 0 0 0 0 0 0 0 0 0 8 15 8 0 0 8 0 15

6 6 0 0 0 0 0 0 6 6

III-After Shivkumar Sharma d=90

Gtr. *mf*

The first system of guitar notation consists of a treble clef staff and a bass clef staff. The treble staff contains a melodic line of eighth notes with various accidentals (sharps and naturals) and accents. The bass staff contains a series of open circles representing chords. Below the bass staff, there are diamond-shaped symbols with vertical lines, likely representing fretting or fingerings.

Gtr.

The second system of guitar notation continues the melodic and harmonic progression. It features similar notation to the first system, with a treble staff for the melody and a bass staff for chords and fretting symbols.

Gtr.

The third system of guitar notation shows a continuation of the piece. The treble staff has a melodic line with accents and slurs. The bass staff includes chords and fretting symbols, with some circles containing the number '19'.

Gtr.

The fourth system of guitar notation continues the melodic and harmonic development. It includes a treble staff with a melodic line and a bass staff with chords and fretting symbols, including circles with the number '19'.

Gtr.

The fifth system of guitar notation concludes the piece. It features a treble staff with a melodic line and a bass staff with chords and fretting symbols, including circles with the number '19'.

Gtr.

The first system of guitar notation consists of two staves. The upper staff is a treble clef with a melodic line of eighth notes, featuring accents and slurs. The lower staff is a bass clef with a fretted bass line, including fingerings such as 19, 11, and 19.

Gtr.

The second system of guitar notation consists of two staves. The upper staff is a treble clef with a melodic line of eighth notes, featuring accents and slurs. The lower staff is a bass clef with a fretted bass line, including fingerings such as 19, 11, and 19.

Gtr.

The third system of guitar notation consists of two staves. The upper staff is a treble clef with a melodic line of eighth notes, featuring accents and slurs. The lower staff is a bass clef with a fretted bass line, including fingerings such as 11 and 19.

Gtr.

The fourth system of guitar notation consists of two staves. The upper staff is a treble clef with a melodic line of eighth notes, featuring accents and slurs. The lower staff is a bass clef with a fretted bass line, including fingerings such as 19, 11, and 8.

Gtr.

The fifth system of guitar notation consists of two staves. The upper staff is a treble clef with a melodic line of eighth notes, featuring accents and slurs. The lower staff is a bass clef with a fretted bass line, including fingerings such as 11, 6, and 11.

IV - After Barrios

Gtr.

f *mp* *f* *mp* *p*

sul pont

Gtr.

mf *mp* *p* *mf* *p* *mp* *p*

Gtr.

mp *mf* *p* *mp* *p* *mf* *mp* *p* *mp*

Gtr.

mf *p* *mf* *p* *mp* *mf* *mp*

V - After Brouwer

fast as possible while still clearly articulated

Gtr. *f*

The first system of guitar notation consists of two staves. The upper staff is in treble clef and contains a melodic line of eighth notes with various accidentals (sharps and naturals). The lower staff is in bass clef and contains a bass line of octaves, with some notes marked with '5' and '8' to indicate fretting positions.

Gtr.

The second system continues the piece. It features a melodic line in the upper staff and an octaved bass line in the lower staff. A dynamic marking 'f' is present at the beginning. A 'short' dynamic marking is placed above a specific note in the upper staff, with a slur and a 'sul pont.' marking below it.

Gtr.

The third system continues the piece. The upper staff has a melodic line, and the lower staff has an octaved bass line. A 'short' dynamic marking is placed above a note in the upper staff, with a slur and a 'sul pont.' marking below it. The bass line includes some triplets and specific fretting numbers like '2 1 0' and '2 1 0'.

Gtr.

The fourth system continues the piece. The upper staff has a melodic line, and the lower staff has an octaved bass line. A 'sul pont.' marking is placed above a note in the upper staff. The bass line includes various fretting numbers and triplets, such as '5 2 0', '2 1 0', and '0 2 3'.

Gtr.

The fifth system continues the piece. The upper staff has a melodic line, and the lower staff has an octaved bass line. The bass line includes various fretting numbers and triplets, such as '0 2 3 5', '2 1 0', and '0 2 3 5'.

Gtr.

9 9 8 0 0 8 9 9 10 0 8 10 0 0 10 8 10 0 10 0 10 0 10 0 10 5 2 0 2 1 0

Gtr.

3 0 3 0 3 2 0 0 1 2 3 3 0 0 3 0 0 3 0 3 0 3 2 0 3 2 5 0 3 2 0 2 0 3 2 5 2 5 3 2 3 0 0 0 3

Gtr.

0 2 5 0 2 0 3 0 4 0 2 0 6 6 4 3 0 4 3 0 6 4 3 6 6 4 3 0 0 3 0 4 3 2 1 0 4 3 2 0 3 0 0 0

Gtr.

3 0 6 0 0 8 0 0 6 0 3 0 0 3 0 0 1 4 0 0 1 0 1 0 1 0 0 1 4 0 0 1 0 0 9 9 8 0 0 9 9 0 0

Gtr.

5 8 0 0 9 0 0 9 0 5 0 0 4 0 0 3 0 0 3 0 0 3 0 0 3 0 0 5 8 0 0 0 8 0 0 8 0 0 9 0 0 0 9 0 5 8 0 0 5 8 0 0 9 0

Gtr.

The first system of guitar notation consists of two staves. The top staff is a treble clef staff with a key signature of one sharp (F#) and a 4/4 time signature. It contains a melodic line of eighth notes with various accidentals (sharps and naturals). The bottom staff is a guitar-specific staff with six lines, containing a sequence of fret numbers (0, 8, 10) and circles representing fretted notes. The sequence of fret numbers is: 5 8 8 0 10 0 10 0 0 10 8 8 8 0 10 0 8 0 10 10 8 0 10 0 5 8 8 0 10 0 5 8 0 0 9 0 9 0 9 0 0 9 0.

Gtr.

The second system of guitar notation consists of two staves. The top staff is a treble clef staff with a key signature of one sharp (F#) and a 4/4 time signature. It contains a melodic line of eighth notes with various accidentals. The bottom staff is a guitar-specific staff with six lines, containing a sequence of fret numbers (0, 8, 9) and circles representing fretted notes. The sequence of fret numbers is: 8 0 0 9 0 8 8 0 0 8 8 0 0 0 0 9 9 0 0 9 0 9 0 0 0 8 0 8 0 0 5 8 0 8 0 0 9 0 5 8 0 0 8 0 0 5 8 0 8 0 0.

Gtr.

The third system of guitar notation consists of two staves. The top staff is a treble clef staff with a key signature of one sharp (F#) and a 4/4 time signature. It contains a melodic line of eighth notes with various accidentals. The bottom staff is a guitar-specific staff with six lines, containing a sequence of fret numbers (0, 8, 10) and circles representing fretted notes. The sequence of fret numbers is: 0 0 8 0 8 0 8 0 0 0 0 8 8 0 0 5 8 8 0 10 0 5 8 0 0 9 0 5 8 0 8 0 0 8 0 8 0 0. The system concludes with a double bar line and the initials "L.V." written in the upper right corner.

VI

♩ = 76 CODA

soft accents on tenutos

TUNE C# to C#
WHILE REPEATING

TUNE A to G

x5-6

Gtr.

TUNE E to D

x5-6

2.v.

Gtr.

ACCEL POCO A POCO --- ♩ = 152

x9

x5

Gtr.

sul pont.

x5

Gtr.

sul fasto → ord.

x6

x23

x5

Gtr.