

Konstantinos Vlachos

Spin

A Spatial Etude for Solo Clarinet and Distributed Clarinet Ensemble

Performance Information

Programme Note

Spin is a short spatial etude for clarinet and distributed ensemble. A solo clarinet line is fractured and echoed outward across a circle of surrounding speakers, forming a canonic dialogue in space. As the material rotates, stretches, and overlaps, the listener is drawn into shifting textures of distance and directionality. Rather than traditional development, *Spin* explores musical growth through spatial motion, turning time into orbit.

Instrumentation

Solo Clarinet in Bb (Live)

Clarinet Choir: 5 Clarinets in Bb, 3 Bass Clarinets in Bb

Performed either **live by 8 players**, or **Spatialised via 8-channel playback** (24 pre-recorded parts across 8 speakers)

Performance Options

1. Ensemble Version (Original Score)

Performed by 8 live players (5 Clarinets, 3 Bass Clarinets), using the **Original Score**. No electronics or spatial setup required.

2. Spatial Version

Performed by a solo clarinetist accompanied by 8 fixed-media stems played through 8 surrounding loudspeakers. Each stem contains 3 mono-centered lines assigned to one speaker, totalling 24 pre-recorded parts. Synchronisation is achieved via in-ear click track.

This edition contains:

The **Original Score** – for 8 live players (ensemble version)

The **Spatial Score** – showing speaker assignments and 24-part layout

A **separate Solo Clarinet Part** – for use in the spatial version

Tempo: 105 BPM (fixed)

Duration: Approximately 3 minutes

Spatial Performance Layout (for use with the Spatial Score)

For this performance, the *spatial score* should be used. The soloist performs live on stage, positioned at the **centre front**.

Surrounding the audience and positioned **off-stage**, a set of **8 loudspeakers** should be arranged in a **clockwise circular formation** around the listening space.

Speaker Positioning (clockwise, viewed from above):

Speaker 1 – directly in front of the audience (12 o'clock position)

Speaker 2 – front-right

Speaker 3 – right

Speaker 4 – back-right

Speaker 5 – directly behind the audience (6 o'clock)

Speaker 6 – back-left

Speaker 7 – left

Speaker 8 – front-left

Each speaker plays back a stereo stem containing **three mono-centered clarinet or bass clarinet lines**. These stems are synchronised via an **in-ear click track** used by the soloist. All playback stems begin with a **2-bar silence**.

Non-Spatial Performance Layout (for use with the Original Score)

For this version, the *original score* should be used and all 8 performers (5 Clarinets, 3 Bass Clarinets) should be seated on stage. While there is no fixed seating arrangement required, it is recommended that the **Solo/Lead Clarinetist** sits at the **centre of the ensemble**, with the remaining performers positioned around them in a **loose circular or semicircular formation**.

Suggested clockwise seating arrangement (viewed from conductor's perspective):

Front centre: **Solo/Live Clarinetist**

To the right: **Clarinet 1, Clarinet 2, Clarinet 3, Clarinet 4, Clarinet 5**

To the left and rear: **Bass Clarinet 1, Bass Clarinet 2, Bass Clarinet 3**

This layout is intended to balance sound projection while preserving a sense of internal spatial dialogue within the ensemble, echoing the spatial logic of the fixed-media version.

Recording Procedure (Spatial Version)

Although **MIDI mock-ups of the recorded parts are provided** as WAV files for each speaker, it is strongly recommended that the performer **records these parts themselves** to ensure stylistic cohesion and a more authentic performance.

To prepare a custom version of the piece:

Record all 24 individual clarinet/bass clarinet parts as shown in the **Spatial Score**.

Group the parts into 8 stems (3 parts per stem), matching the speaker assignments.

Ensure each stem:

Begins with a **2-bar silence**

Is **mono-centered** and **dry** (no reverb)

Is exported as **stereo WAV** (24-bit, 48kHz)

Route each final stem to the corresponding output/speaker as listed above.

Speaker Assignment (Spatial Version)

Each speaker plays one stereo stem containing 3 mono-centered clarinet or bass clarinet lines. All stems begin with a 2-bar silence.

Speaker 1	– Clarinet 1, Clarinet 2, Bass Clarinet 1	→ Output Channel 1
Speaker 2	– Clarinet 1, Clarinet 2, Bass Clarinet 1	→ Output Channel 2
Speaker 3	– Clarinet 1, Clarinet 2, Bass Clarinet 1	→ Output Channel 3
Speaker 4	– Clarinet 1, Clarinet 2, Bass Clarinet 1	→ Output Channel 4
Speaker 5	– Clarinet 1, Clarinet 2, Bass Clarinet 2	→ Output Channel 5
Speaker 6	– Clarinet, Bass Clarinet 1, Bass Clarinet 2	→ Output Channel 6
Speaker 7	– Clarinet, Bass Clarinet 1, Bass Clarinet 2	→ Output Channel 7
Speaker 8	– Clarinet, Bass Clarinet 1, Bass Clarinet 2	→ Output Channel 8

Synchronisation (Spatial Version)

The following files begin with a **2-bar silence** for synchronisation:

Speaker 1–8 stems

Click Track Full (begins with a 2-bar count-in)

Live (solo clarinet render for testing only)

The soloist begins at bar 1, immediately after the 2-bar count-in.

The click track is used via **in-ear monitoring** and is **not audible in the performance space**.

Important:

The **Live** file is a rehearsal reference (includes 2-bar silence) and is **not to be used in performance**. It exists solely for speaker setup and balance testing.

The **Flat Stereo** does **not** include the 2-bar silence. The audio begins directly at bar 1 and is for rehearsal/listening only.

Audio Materials Provided (WAV, 24-bit / 48kHz)

2-Bar Click – short click-only track for alignment

Click Track Full – full-length click (with 2-bar count-in)

Live – stereo render of the solo part (with 2-bar silence) – *for testing only*

Speaker 1–8 – stereo stems (each with three mono-centered lines, including 2-bar silence)

Spin with Click – stereo rehearsal mix with click overlay

Spin Flat Stereo – stereo mix reflecting spatial panning (*no 2-bar silence*)

Spin
Spatial Score

1

Konstantinos Vlachos
2022

A
Giacoso ♩ = 105
Konstantinos Vlachos
2022

The musical score is presented in a multi-staff format. At the top left, there is a section marker 'A' and a tempo marking 'Giacoso ♩ = 105'. On the top right, the composer's name 'Konstantinos Vlachos' and the year '2022' are listed.

The instrumentation includes:

- Clarinet in B $\flat$ (live)
- Speaker 1: Clarinet 1 in B $\flat$, Clarinet 2 in B $\flat$, Bass Clarinet in B $\flat$
- Speaker 2: Clarinet 1 in B $\flat$, Clarinet 2 in B $\flat$, Bass Clarinet in B $\flat$
- Speaker 3: Clarinet 1 in B $\flat$, Clarinet 2 in B $\flat$, Bass Clarinet in B $\flat$
- Speaker 4: Clarinet 1 in B $\flat$, Clarinet 2 in B $\flat$, Bass Clarinet in B $\flat$
- Speaker 5: Clarinet 1 in B $\flat$, Clarinet 2 in B $\flat$, Bass Clarinet in B $\flat$
- Speaker 6: Clarinet in B $\flat$, Bass Clarinet 1 in B $\flat$, Bass Clarinet 2 in B $\flat$
- Speaker 7: Clarinet in B $\flat$, Bass Clarinet 1 in B $\flat$, Bass Clarinet 2 in B $\flat$
- Speaker 8: Clarinet in B $\flat$, Bass Clarinet 1 in B $\flat$, Bass Clarinet 2 in B $\flat$

The score is written in 4/4 time with a key signature of two flats (B $\flat$ major or D minor). It features various musical notations including notes, rests, dynamics (e.g., *ff*, *f*, *mp*), articulation marks (accents, slurs), and fingerings. The piece is divided into measures numbered 1 through 19.

20 21 22 23 24 25 26 27 28 29 30 31 32 33 2

CL. *f* 3 *mp* < *f* *mf* *mp f* *mp* *mp* *f* *sempre*

CL1. *mp* *f* *mp* *mf* *mp* *mf* *mp* *mf* *mp*

S1 CL2

B. CL. *mp* *f* *mp* *f* *mp* *f* *mp* *f* *mp* *f*

CL1. *mp* *f* *mf* *mf* *mp* *mp* *mp* *f* *mp* *f*

S2 CL2

B. CL. *mp* *f* *mf* *mf* *mp* *mp* *f* *mp* *f* *mp*

CL1. *mp* *f* *mf* *mf* *mp* *mp* *f* *mp* *f* *mp*

S3 CL2

B. CL. *mp* *f* *mf* *mf* *mp* *mp* *f* *mp* *f* *mp*

CL1. *f* *mf* *mf* *mp* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

S4 CL2

B. CL. *mp* *f* *mf* *mf* *mp* *mp* *f* *mp* *f* *mp*

CL1. *mf* *mp* *mp* *f* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

S5 CL2

B. CL. *mf* *f* *mf* *mp* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

CL. *mp* *f* *mp* *f* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

S6 B. CL1 *mf* *f* *mp*

B. CL2

CL. *mp* *mp* *f* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

S7 B. CL1 *mf* *mp* *f* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

B. CL2

CL. *mf* *mp* *f* *mp* *f* *mp* *f* *mp* *mf* < *f* *mf*

S8 B. CL1 *mp* *f* *mp*

B. CL2

100

This image shows a page of a musical score, likely for a woodwind ensemble. The score is written in 3/4 time and includes various musical notations such as notes, rests, and dynamic markings. The page number 4 is visible in the top right corner.

The score is organized into systems, each containing multiple staves. The staves are labeled as follows:

- Cl. (Clarinet)
- Cl.1 (Clarinet 1)
- Cl.2 (Clarinet 2)
- B. Cl. (Bass Clarinet)
- Cl.3 (Clarinet 3)
- B. Cl.1 (Bass Clarinet 1)
- B. Cl.2 (Bass Clarinet 2)
- Cl.4 (Clarinet 4)
- B. Cl.3 (Bass Clarinet 3)
- B. Cl.4 (Bass Clarinet 4)

The score includes various musical notations such as notes, rests, and dynamic markings. The page number 4 is visible in the top right corner.

63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78

Cl. *mp*

Cl.1 *mp*

S1 Cl.2

B. Cl. *mp* Slap Tongue

Cl.1 *mp*

S2 Cl.2 *pp* *ppp*

B. Cl. *p*

Cl.1 *f* *p*

S3 Cl.2

B. Cl. *mp* Slap Tongue *nat.*

Cl.1 *mp* *p*

S4 Cl.2

B. Cl. *mp* Slap Tongue *nat.*

Cl.1 *f* *p*

S5 Cl.2 *pp* *ppp*

B. Cl. *mp* Slap Tongue *nat.*

Cl. *p* *pp*

S6 B. Cl.1 Bass Clarinet in B $\flat$ *p* *pp* *ppp*

B. Cl.

Cl. *f* *p* *mp* *p*

S7 B. Cl.1 *p* Slap Tongue *nat.* Slap Tongue *ppp* *ff*

B. Cl.

Cl. *mp*

B. Cl. 3 *f* *p* *ppp* *ff* Slap Tongue

B. Cl.

Spin

Original Score

Giocoso ♩ = 105

Konstantinos Vlachos

2022

Clarinet in B $\flat$ (solo) *ff*

Clarinet in B $\flat$ 1 *f*

Clarinet in B $\flat$ 2 *mf sempre*

Clarinet in B $\flat$ 3

Clarinet in B $\flat$ 4

Clarinet in B $\flat$ 5

Bass Clarinet in B $\flat$ 1

Bass Clarinet in B $\flat$ 2

Bass Clarinet in B $\flat$ 3

[illegible]

24

Cl. 1 *mf* *mp=f:* *mp*

Cl. 2

Cl. 3

Cl. 4 *f* *mp* *f* *mp* *f* *mp* *f*

Cl. 5 *mf* *mp*

B. Cl. 1

B. Cl. 2

B. Cl. 3

mp

This musical score page contains measures 24 through 27 for a woodwind ensemble. The instruments are Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), Clarinet 5 (Cl. 5), Bassoon 1 (B. Cl. 1), Bassoon 2 (B. Cl. 2), and Bassoon 3 (B. Cl. 3). The key signature has two flats (B-flat and E-flat), and the time signature is 4/4. Measure 24 features a melodic line in Cl. 1 starting on G4, moving up to A4, B4, and C5, with a *mf* dynamic. Cl. 2 and Cl. 3 play chords, with Cl. 3 having a *f* dynamic. Cl. 4 and Cl. 5 play chords, with Cl. 4 having a *f* dynamic. B. Cl. 1 and B. Cl. 2 play chords, with B. Cl. 2 having a *mf* dynamic. B. Cl. 3 is silent. Measure 25 features a melodic line in Cl. 1 starting on G4, moving up to A4, B4, and C5, with a *mp=f:* dynamic. Cl. 2 and Cl. 3 play chords, with Cl. 3 having a *f* dynamic. Cl. 4 and Cl. 5 play chords, with Cl. 4 having a *f* dynamic. B. Cl. 1 and B. Cl. 2 play chords, with B. Cl. 2 having a *mf* dynamic. B. Cl. 3 is silent. Measure 26 features a melodic line in Cl. 1 starting on G4, moving up to A4, B4, and C5, with a *mp* dynamic. Cl. 2 and Cl. 3 play chords, with Cl. 3 having a *f* dynamic. Cl. 4 and Cl. 5 play chords, with Cl. 4 having a *f* dynamic. B. Cl. 1 and B. Cl. 2 play chords, with B. Cl. 2 having a *mf* dynamic. B. Cl. 3 is silent. Measure 27 features a melodic line in Cl. 1 starting on G4, moving up to A4, B4, and C5, with a *mp* dynamic. Cl. 2 and Cl. 3 play chords, with Cl. 3 having a *f* dynamic. Cl. 4 and Cl. 5 play chords, with Cl. 4 having a *f* dynamic. B. Cl. 1 and B. Cl. 2 play chords, with B. Cl. 2 having a *mf* dynamic. B. Cl. 3 is silent.

[illegible]

32

This musical score page contains measures 32 through 35 for a woodwind ensemble. The instruments are arranged in ten staves: Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), Clarinet 5 (Cl. 5), Bass Clarinet 1 (B. Cl. 1), Bass Clarinet 2 (B. Cl. 2), and Bass Clarinet 3 (B. Cl. 3). The key signature is B-flat major (two flats). The score features a variety of musical textures, including melodic lines, harmonic support, and complex rhythmic patterns. Dynamics such as *f* (forte), *mp* (mezzo-piano), and *mf* (mezzo-forte) are indicated throughout. Performance markings include accents, slurs, and crescendo/decrescendo hairpins. The woodwinds play in unison or harmony, with some parts featuring rapid sixteenth-note passages and others providing sustained harmonic support.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

f *mp*

f *mp*

f *mf*

f *mf*

f *mf*

f *mp*

f *mp*

f *mp*

f *mp*

f *mp*

f *mp*

36

Cl.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

mp

p

f

mp

p

p

p

p

Slap Tongue

mp

p

p

3

41

This musical score page contains measures 41 through 45. The woodwind section includes Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), and Clarinet 5 (Cl. 5). The string section includes Bass Clarinet 1 (B. Cl. 1), Bass Clarinet 2 (B. Cl. 2), and Bass Clarinet 3 (B. Cl. 3). The key signature is B-flat major (two flats). Clarinet 1 has a melodic line with slurs and accents, starting in measure 41 and continuing through measure 45. Clarinet 2 enters in measure 44 with a half-note melody. Clarinet 4 and 5 have short melodic fragments in measures 45 and 44 respectively. Bass Clarinet 1 has a melodic line in measures 42 and 44. Bass Clarinet 2 and 3 play a rhythmic pattern of eighth notes. Dynamics include *p* (piano) for Clarinet 1 and Clarinet 2, and *mf* (mezzo-forte) for Clarinet 4 in measure 45. The page number 9 is in the top right corner, and the measure number 41 is at the top left.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

p

mf

46

This musical score page contains measures 46 through 49 for a woodwind ensemble. The instruments are arranged in eight staves: Clarinet (Cl.), Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), Clarinet 5 (Cl. 5), Bass Clarinet 1 (B. Cl. 1), Bass Clarinet 2 (B. Cl. 2), and Bass Clarinet 3 (B. Cl. 3). The key signature is B-flat major (two flats). Measure 46 features a melodic line in the Clarinet, while measures 47-49 show more complex textures with multiple instruments playing melodic and harmonic parts. Measure 47 includes a large bracketed section for the Clarinet 1 and 4 parts. Measure 48 features a long, sustained note in the Clarinet 2 part. Measure 49 concludes the section with a final melodic phrase in the Clarinet 1 and 4 parts.

Cl.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

54

Cl.

mp *espress.*

Cl. 1

Cl. 2

p

Cl. 3

p

Cl. 4

p

Cl. 5

p
nat.

B. Cl. 1

p

B. Cl. 2

B. Cl. 3

This musical score page contains measures 54, 55, and 56 for a woodwind section. The key signature has two flats (B-flat and E-flat), and the time signature is 4/4. The instruments are Clarinet (Cl.), Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), Clarinet 5 (Cl. 5), Bass Clarinet 1 (B. Cl. 1), Bass Clarinet 2 (B. Cl. 2), and Bass Clarinet 3 (B. Cl. 3). Measure 54 features a melodic line in the main Clarinet staff with an *mp* *espress.* marking, while Cl. 1 and B. Cl. 2-3 are silent. Measures 55 and 56 show a complex texture with multiple woodwinds playing. Cl. 2 has a long note with a slur. Cl. 3, 4, and 5 play sixteenth-note patterns. B. Cl. 1 plays a melodic line with a *p* *nat.* marking. Cl. 1 enters in measure 56 with a *p* dynamic. The score includes various musical notations such as slurs, ties, and dynamic markings.

57

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

ff

f

f

f

f

f

mf

mf

f

f

61

Cl.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

mf

mp

d

This musical score page, numbered 14, contains measures 61 through 64 for a woodwind ensemble. The instruments are Clarinet (Cl.) in E-flat, Clarinet 1 (Cl. 1) in E-flat, Clarinet 2 (Cl. 2) in E-flat, Clarinet 3 (Cl. 3) in E-flat, Clarinet 4 (Cl. 4) in E-flat, Clarinet 5 (Cl. 5) in E-flat, Bass Clarinet 1 (B. Cl. 1) in E-flat, Bass Clarinet 2 (B. Cl. 2) in E-flat, and Bass Clarinet 3 (B. Cl. 3) in E-flat. The key signature has two flats (B-flat and E-flat). Measure 61 features a melodic line in the first Clarinet with a slur and a grace note, while the other instruments have rests. Measure 62 shows a dynamic shift to *mf* for the first Clarinet and Clarinet 1, with a slur over the first two measures. Measure 63 features a dynamic shift to *mp* for the first Clarinet and Clarinet 1, with a slur over the last two measures. Measure 64 continues the *mp* dynamics. The score includes various musical notations such as slurs, grace notes, and dynamic markings.

[illegible]

70

Cl.

Cl. 1

Cl. 2

Cl. 3

Cl. 4

Cl. 5

B. Cl. 1

B. Cl. 2

B. Cl. 3

p

nat.

p

nat.

This musical score page, numbered 16, contains measures 70 through 74. The instrumentation includes Clarinet (Cl.) in E-flat, Clarinets 1 through 5 (Cl. 1-5), Bassoon 1 (B. Cl. 1), Bassoon 2 (B. Cl. 2), and Bassoon 3 (B. Cl. 3). The key signature is B-flat major (two flats). Measure 70 shows the Clarinet 1 and 2 parts with eighth-note patterns and accents. Clarinet 5 and Bassoon 1 have melodic lines with accents. Measures 71 and 72 continue these patterns. In measure 73, the Clarinet part has a half-note rest, while Clarinet 1 and 2 have eighth-note patterns. Bassoon 1 and 2 have melodic lines. Measure 74 features a dynamic change to *p* (piano) for the Clarinet part, which has a half-note rest. Clarinet 1 and 2 have eighth-note patterns. Bassoon 1 and 2 have melodic lines, with Bassoon 2 marked *nat.* (natural). Bassoon 3 has a half-note rest.

75

This musical score page contains measures 75 through 78 for a woodwind ensemble. The instruments are arranged in nine staves: Clarinet 1 (Cl. 1), Clarinet 2 (Cl. 2), Clarinet 3 (Cl. 3), Clarinet 4 (Cl. 4), Clarinet 5 (Cl. 5), Bass Clarinet 1 (B. Cl. 1), Bass Clarinet 2 (B. Cl. 2), Bass Clarinet 3 (B. Cl. 3), and a third Bass Clarinet (B. Cl. 3). The key signature has two flats (B-flat and E-flat), and the time signature is 5/4. The score includes various musical notations such as eighth and sixteenth notes, rests, slurs, and dynamic markings. Dynamics range from *mp* (mezzo-piano) to *ppp* (pianissimo) and *ff* (fortissimo). Performance techniques like 'Slap Tongue' and 'nat.' (natural) are indicated. Measure 78 features a complex dynamic shift from *ppp* to *ff* for the bottom staves.

Cl. 1 *mp* *pp*

Cl. 2 *ppp*

Cl. 3

Cl. 4 *p*

Cl. 5 *pp* *ppp*

B. Cl. 1 *pp* *ppp*

B. Cl. 2 Slap Tongue *pp* nat. *ppp* *ff* Slap Tongue

B. Cl. 3 *ppp* *ff*

Spin

Spatial Score

Giocososo ♩ = 105

Konstantinos Vlachos
2022

A

ff

f *mp* *f* *mp*

f *mp* *f* *mp*

f *mp* *f* *mp*

mp *f* *mf*

mp = f *mp* *mp* *f sempre*

B

C

mp

