Jigsaw Zither

for solo berimbau player with five live or pre-recorded berimbau players

David M. Gordon



for Gregory Beyer and Arcomusical

Duration: ca. 9'30"

Instrumentation

- Player 1 2 berimbaus
 - 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone
- Player 2 1 berimbau
 - 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone
- Player 3 1 berimbau
 - 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone
- Player 4 1 berimbau
 - 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone
- Player 5 3 berimbaus (Berimbaus 2 and 3 are shared with Player 6)
 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone
- Player 6 3 berimbaus (Berimbaus 2 and 3 are shared with Player 5)
 2 normal sticks, 1 rubber-wrapped stick, 1 coin or stone

Special Notations



— Closed. Hold the gourd against your body.

Instrument Tunings

Player 1

<u>Berimbau 1</u>



<u>Berimbau 2</u>



Player 2



Player 3



Player 4



Player 5

<u>Berimbau 1</u>



Berimbau 2 (shared with Player 5)



Berimbau 3 (shared with Player 6)



Player 6

<u>Berimbau 1</u>



Berimbau 2 (shared with Player 5) – see above

Berimbau 3 (shared with Player 5) - see above



• The frequencies listed above represent the preferred tuning for the piece. If, however, the lowness of the range causes some of the berimbau strings to become too loose and thus not resonate properly or hold their pitch, the following alternate frequencies can be used:

<u>Up a step</u>

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Player 1, Berimbau 1 – E<sup>+</sup> = 189.8 Hz, F♯ = 207 Hz
Player 1, Berimbau 2 – D# = 172.5 Hz, A# = 258.8 Hz
Player 2 – E<sup>+</sup> = 189.8 Hz, B<sup>+</sup> = 284.7 Hz
Player 3 – D = 165.6 Hz, A = 248.4 Hz
Player 4 – D<sup>d</sup> = 161 Hz, A<sup>d</sup> = 241.5 Hz
Player 5, Berimbau 1 – C<sup>+</sup> = 149.5 Hz, G<sup>+</sup> = 224.3 Hz
Player 5, Berimbau 2 – low D\# = 86.3 Hz, high D\# = 345 Hz
Player 5, Berimbau 3 – low B = 69 Hz, high D_{\#} = 345 Hz
Player 6, Berimbau 1 – B = 138 Hz, F# = 207 Hz
Player 6, Berimbau 2 – low D# = 86.3 Hz, high D# = 345 Hz
Player 6, Berimbau 3 – low B = 69 Hz, high D# = 345 Hz
Up a minor third
Player 1, Berimbau 1 – E<sup>+</sup> = 200.8 Hz, F♯ = 219 Hz
Player 1, Berimbau 2 – D# = 182.5 Hz, A# = 273.8 Hz
Player 2 – E<sup>+</sup> = 200.8 Hz, B<sup>+</sup> = 301.2 Hz
Player 3 – D = 175.2 Hz, A = 262.8 Hz
Player 4 – D<sup>d</sup> = 170.3 Hz, A<sup>d</sup> = 255.5 Hz
Player 5, Berimbau 1 – C<sup>+</sup> = 158.2 Hz, G<sup>+</sup> = 237.3 Hz
Player 5, Berimbau 2 – low D# = 91.3 Hz, high D# = 365 Hz
Player 5, Berimbau 3 – low B = 73 Hz, D# = 345 Hz
Player 6, Berimbau 1 – B = 146 Hz, F# = 219 Hz
Player 6, Berimbau 2 – low D# = 91.3 Hz, high D# = 365 Hz
Player 6, Berimbau 3 – low B = 73 Hz, D# = 345 Hz
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Special Performance Instructions

- All instruments that are performed live must be amplified.
- Parts 2–6 may either be 1) performed live, or 2) pre-recorded and played back through speakers. If parts 2–6 are recorded, the recording must be divided into two different tracks. Track 1 should contain measures 1–273, track 2 should contain measures 275–344, and both tracks should end with approximately 20 seconds of additional silence. An assistant will most likely be needed to start and stop the tracks at the appropriate times, as well as to adjust the volume level of the recording.