Melt into it
Sam Longbottom
quartet & tape

instrumentation

flute clarinet in Bb alto saxophone bassoon

2 tape parts played through two separate pairs of stereo speakers (see below for more details)

general

All instrumental parts are doubled in tape 1 (see score). The ensemble and tape should sound as one.

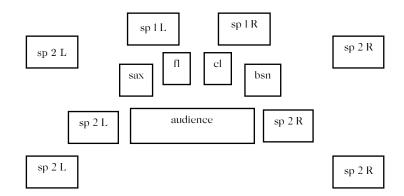
Tape 2 (not notated in the score) is independent of the ensemble and slowly fades in throughout the piece. By the end of the piece, it should completely burry the ensemble and tape 1.

The bassoon, saxophone, and tape 1 (and clarinet in the latter part of the piece) should sound as one, blending as much as possible together, think of the sound of an organ, attacks should be soft, with no emphasis at the beginnings of notes or diminuendo at the end of notes.

The flute and clarinet should be buried lightly under the saxophone and bassoon parts. The flute and clarinet play an octave apart, the instrument that is on top should be quieter then the lower one. A few instances of phrasing have been given, but otherwise it is left open to the performers interpretation.

Regarding the overall dynamic level of the piece: the music should be as loud as is possible without sounding loud, that is, as loud as is possible with the timbre of quiet playing. The tape part, being fixed, has an overall timbre that sounds quiet, but can be played as loud as the speakers can go. Together, the ensemble and tape should sound like quiet music turned up loud.

$\underline{set up}$



The ensemble should be set up on stage similarly to the diagram above.

The amplification for tape 1 should be on stage, from within or slightly behind the performers to enable the ensemble and tape to emerge from one spacial location.

The distribution of the ensemble corresponds to the panning of each instrument's doubling in the tape part (i.e., sax positioned on the left is doubled by a tape part panned to the left).

Tape 2, which is not notated in the score, plays through a pair of speakers that are placed away from the ensemble. The ideal amplification is one in which an array of speakers are distributed through the seating area (more than one per stereo channel), surrounding the audience, and allowing them to be completely submerged in the sound from tape 2. However, where this is not possible, a stereo pair will do, placed at either side of the audience; behind the audience; widely spaced on stage compared to the ensemble; etc. (placements for the second set of speakers are shown in the diagram above).

intonation

The piece is tuned in just intonation. Pitches are notated using HEJI accidentals. Full explanation of accidentals can be found here: https://marsbat.space/pdfs/HEJI2 legend+series.pdf

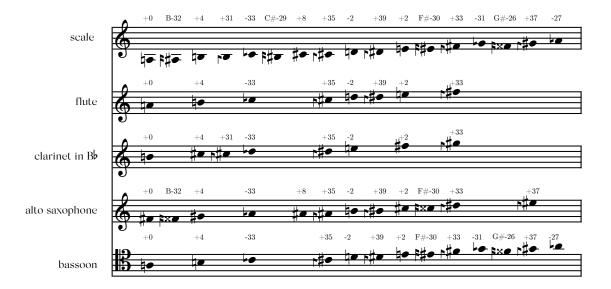
Accidentals used:

= aprox. -30 cents

ightharpoonup = aprox. +30 cents

= aprox. +60 cents

Aggregate of pitches used in the piece and which member of the ensemble plays which pitch:

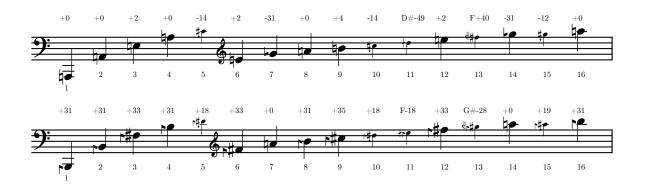


Following is a more in depth explanation of the tuning of the piece:

The tuning of each pitch corresponds to an interval from the harmonic series. There are several interconnected harmonic series' used in the piece where a harmonic from one may become a different harmonic of another. The notation used aims to inform the performer of the harmonic relationship of each pitch and specifies its exact intonation.

This piece of music is in a subset of just intonation known as septimal tuning, this is where all the pitches are related to the seventh harmonic. This tuning is distinct from the more common way of tuning in western music as major thirds are raised, rather than lowered; minor thirds are lowered, rather than raised; similarly, major sixths are raised, rather than lowered; and minor sixths are lowered, rather than raised.

In order to explain a little more, below are two sets of harmonic series: the first is a harmonic series on A, the second is a harmonic series on B_r, where the 7th harmonic is the A from the first example.



It's possible to view the septimal intervals used in the piece through the above example: the narrow minor third is the interval between harmonics 7 and 6; the wide major second is the interval between harmonics 8 and 7; the wide major third is the interval between harmonics 9 and 7; the wide major sixth is the interval between harmonics 12 and 7 (the inversion of the narrow minor third); the narrow minor sixth is the interval between harmonics 14 and 9 (inversion of wide major third); and so on.

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