

Threads of Gold
(2005)

By Alexander Campkin

Instrumentation:

Flute (doubling piccolo)

Oboe

Clarinet in B_b

Bassoon

Horn in F

Strings (2.2.2.2.2)

Duration: c. 8'

Score notated in C (ie written at pitch)

(with the customary octave transpositions for piccolo and double bass)

In this work I derived both the rhythm material and the mode from Golden String, which is a binary number based on Fibonacci Numbers. It is of infinite length, but can be reduced to three blocks repeated in different orders, the longest one being 10110101.

I created three rhythmic modes by replacing 1 with a quaver if it is followed by another 1, and if it is followed by a 0 I substituted a crotchet. The rhythmic modes are as follows:

- ♪ ♪ ♪ ♪ ♪
- ♪ ♪ ♪
- ♪ ♪ ♪

In creating the mode, in the same manner I replaced 1 with a semitone if it is followed by another 1, and if it is followed by a 0 I substituted by a tone. See 2-octave mode this generated:

T S T T S T S T T S T S T T S

Bar numbers of moments of structural importance are synchronised with the following Lucas Numbers: 11, 29, 47, 76, 123. When any Lucas number is divided by the preceding number the Golden Ratio is approximated.

