# Robert Guthrie

Spectra

for Chamber Orchestra

duration: 14 minutes

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#### Instrumentation

Flute Clarinet in B flat (Bass Clarinet in B flat) Bassoon

> Horn in F Trombone

> > Piano

2 Violins Viola Cello Double Bass

Duration: 14 minutes

Score in C

#### Programme Note

Spectra is a set of seven miniatures for chamber orchestra exploring possibilities for harmonic movement in an atonal context. Based on permutations of Messiaen's modes of limited transposition, pitch material throughout is developed and manipulated through various generative techniques inspired by post-serialism, complexity and minimalism.

Each miniature takes its title and aesthetic inspiration from a band of the electromagnetic spectrum, in ascending order of frequency:

Radio Microwave Infrared Visible Light Ultraviolet X-Ray Gamma

The bandwidth of each determined durations, whilst musical 'waves,' internal structures and the generation of material are based on specific frequencies and their relative wavelengths throughout.

#### Performance notes

In *Radio*, each note is to be held for the duration indicated by the time markers, creating a very slow wave of harmonic change throughout the piece. Breathing and bowing should be smooth and seamless as possible. Breath or bow changes should not align with other players to minimise gaps.

# Spectra

### Radio





























































