

Auflösung (2017)

for cello and live-electronics

Luc Döbereiner

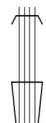
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The piece is to be understood as a single continuously transforming sound and should therefore always be played *legatissimo*. Succeeding sonorous states should merge into each other. There are rare jumps or discontinuities, such as when jumping behind the bridge. These should be executed as fast as possible. The notated positions, pressures, and movements are conceived so as that they interact with each other and let partly unpredictable sounds and textures emerge.

Apart from a few exceptions, the piece is notated in three staves. The uppermost staff indicates the bowing position and the bow pressure. The middle staff indicates the horizontal bowing speed and the lowest staff indicates the left hand positions and finger pressure. Absolute time is given in seconds above the systems and indicated by a vertical line every two seconds.

Clefs



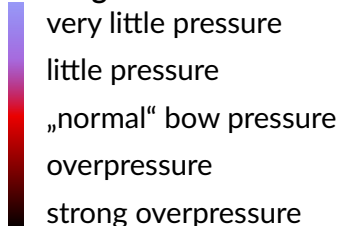
This clef is used for the left and for the right hand. It shows the positions of the bow or fingers between the bridge and the end of the fingerboard.



This clef is used for notating actions between the tailpiece and the bridge.



Bowing Pressure

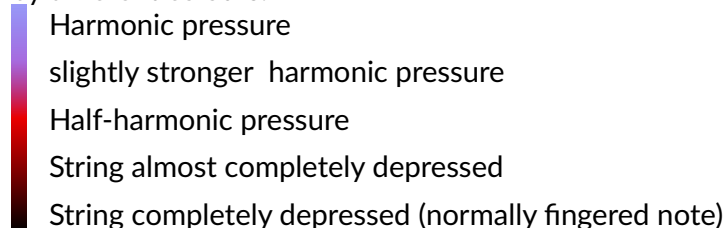


Bowing speed and type of bowing

Bow changes are not explicitly notated, but a result of the horizontal bowing speed. Bow changes should only be audible when the bow pressure is very high, the bowing speed is very fast or when the bowing close to the frog is indicated. The type of bowing is notated by three different indications and arrows for transitions between these types of bowing: “ord” denotes a “normal” type of bowing, “closer to the frog”, and “at the frog”, which indicates a very noisy type of bowing.

Fingerpressure

Like the bowing pressure the finger pressure of the left hand are indicated by different colours.



“Hammer-ons”

 Dashed lines indicated hammer-ons with the fingers of the left hand. Depending on the colour these are either harmonic hammer-ons or fully depressed hammer ons. The distances between the dashes indicate a relative speed. However, the hammer-ons should always be executed quickly and may be slightly irregular.

Note heads

Note heads only serve to easily identify and differentiate pitches and should in no way be articulated or accented. The note head ▲ indicates a finger position as closely as possible to the bridge (as high as possible).

Multiphonics

Multiphonic sounds are created by different techniques: bowing closely to the bridge, overpressure, fingering between bow and bridge, half-

harmonics, and harmonic multiphonics. The latter indicated by the letter “**M**” above the note head. These multiphonics will not be audible in every context. The letter “**M**” thus indicates a potential not a sound result.

Setup and Live-Electronics

One microphone picks up the cello sound, which is processed by a SuperCollider patch, which can be obtained from the composer (luc.doebereiner@gmail.com). The SuperCollider patch outputs one channel to be played back over a transducer attached to the cello itself. Moreover, the cello is to be amplified over two loudspeakers on the stage and to the left and to the right of the cello.

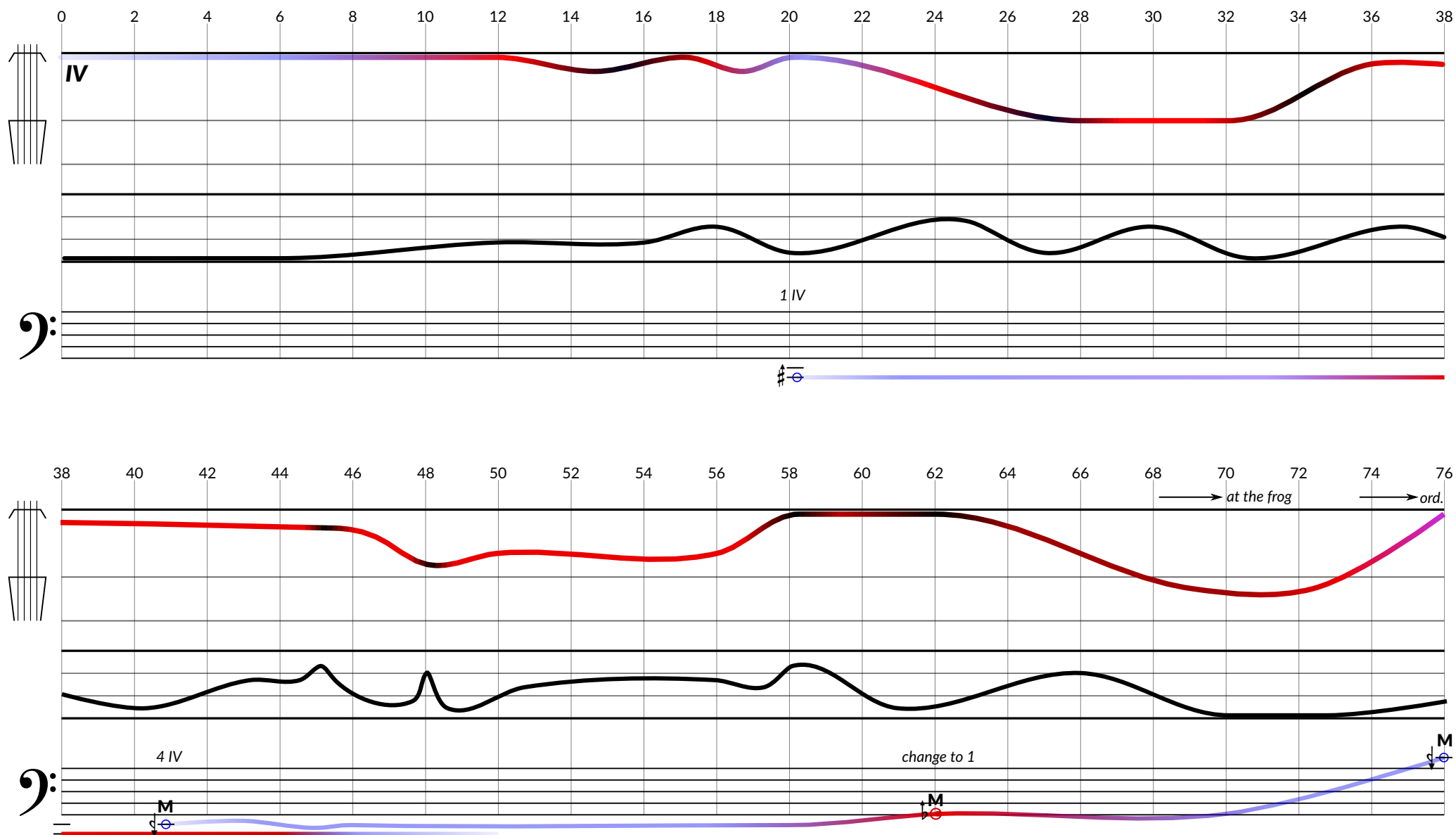
Duration: 8 minutes

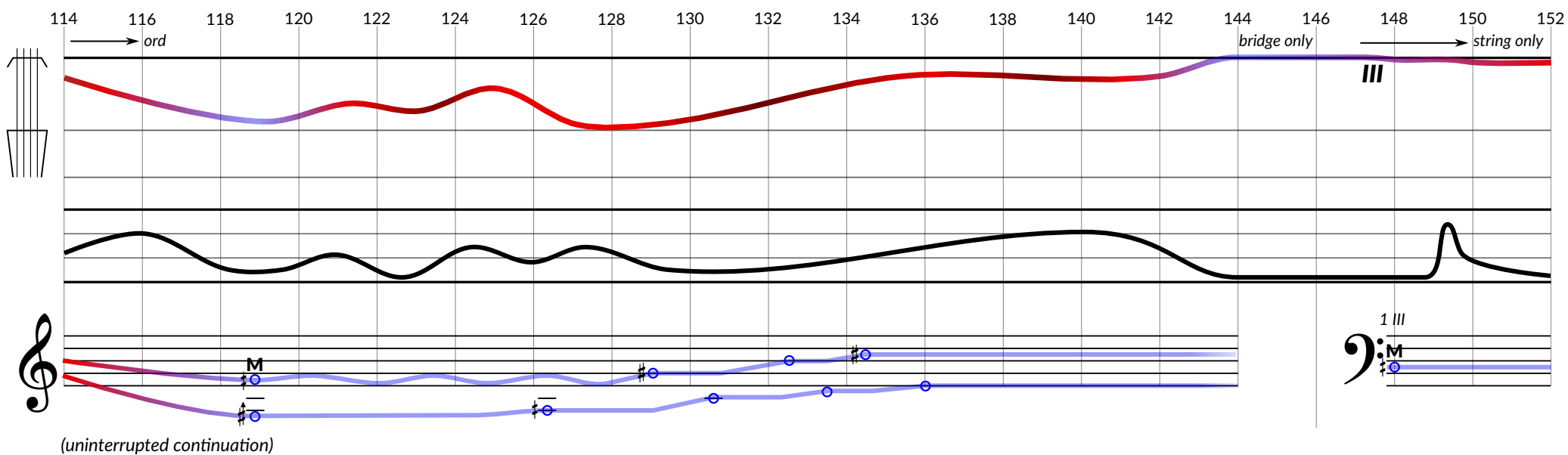
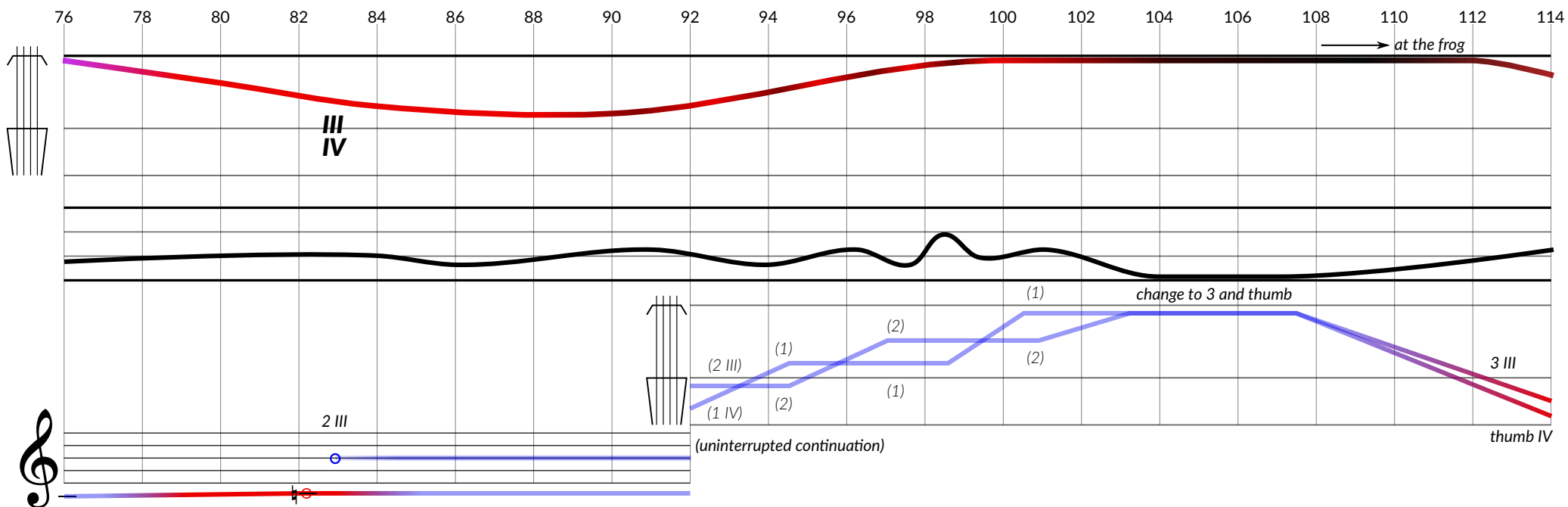
Auflösung was commissioned by the Sonification Festival Berlin, October 2017.

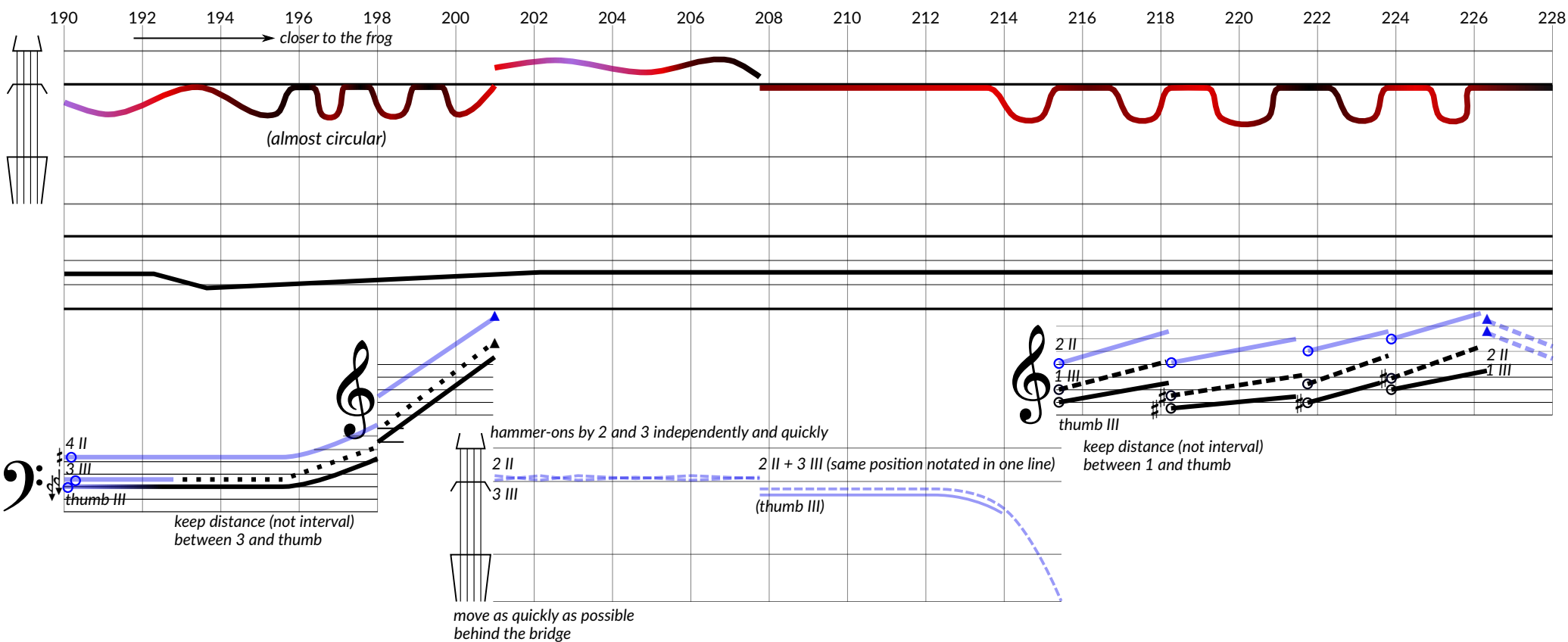
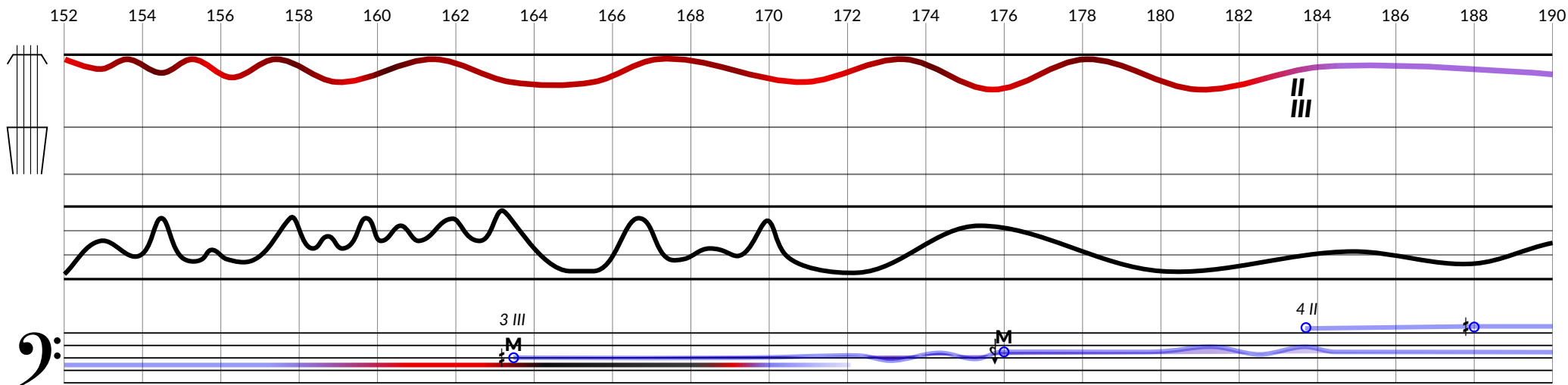
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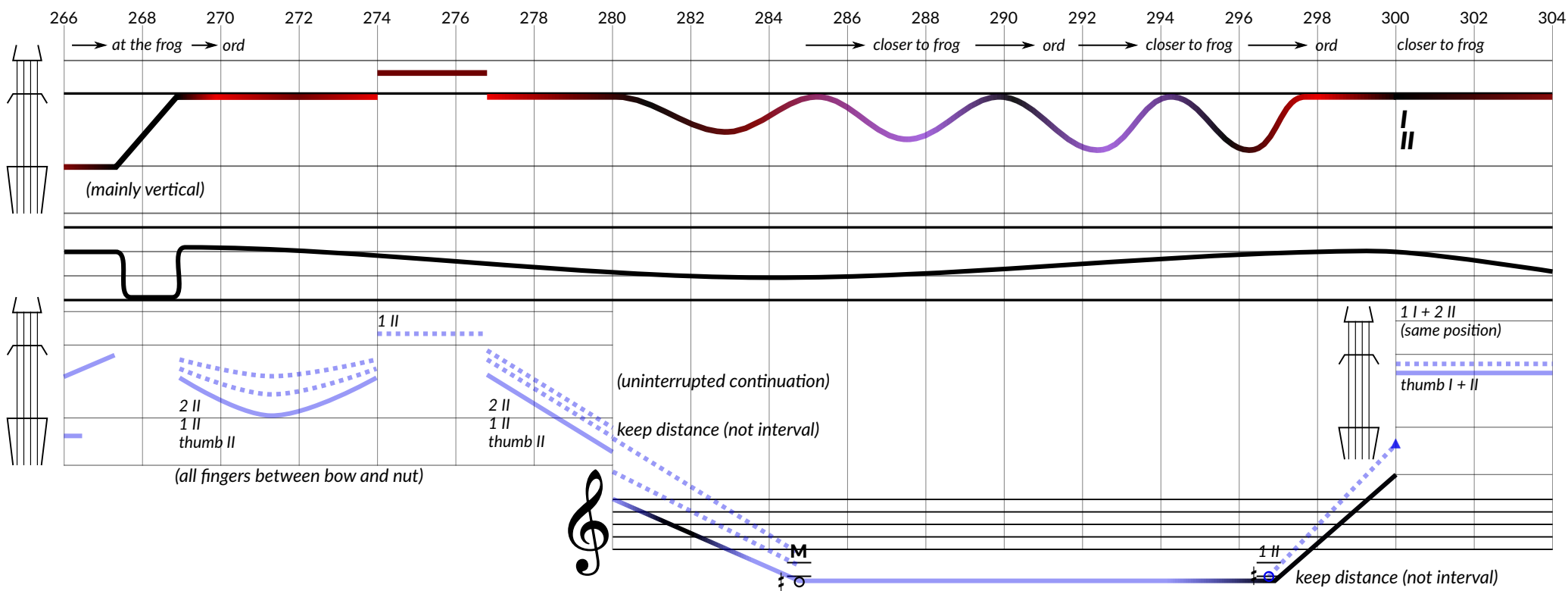
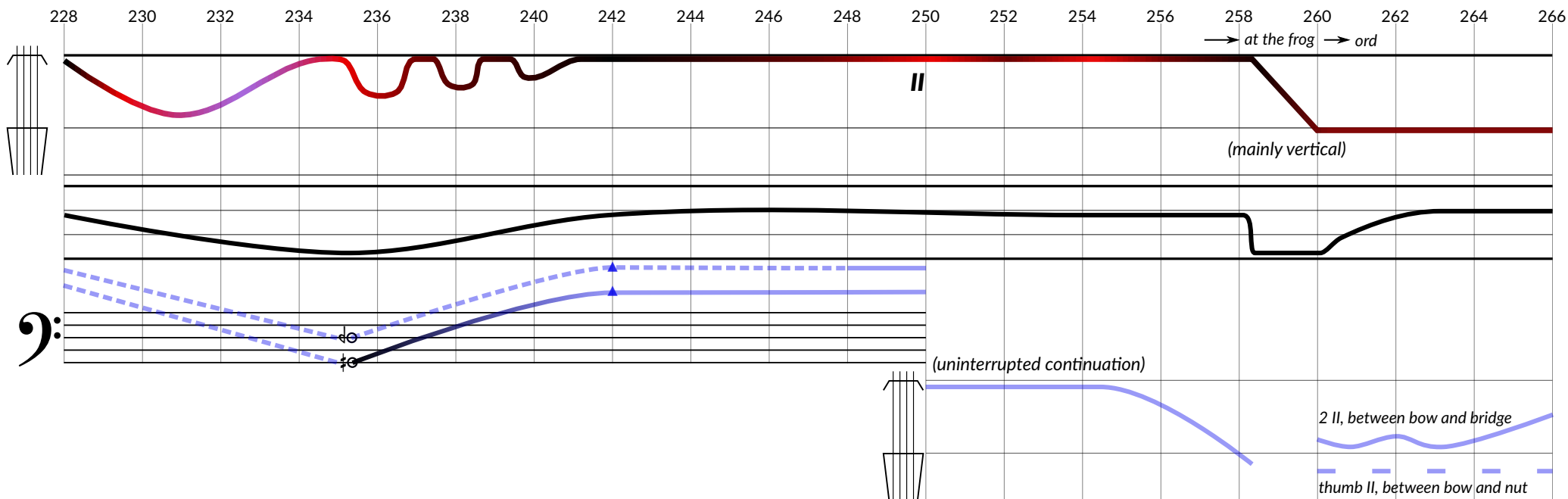
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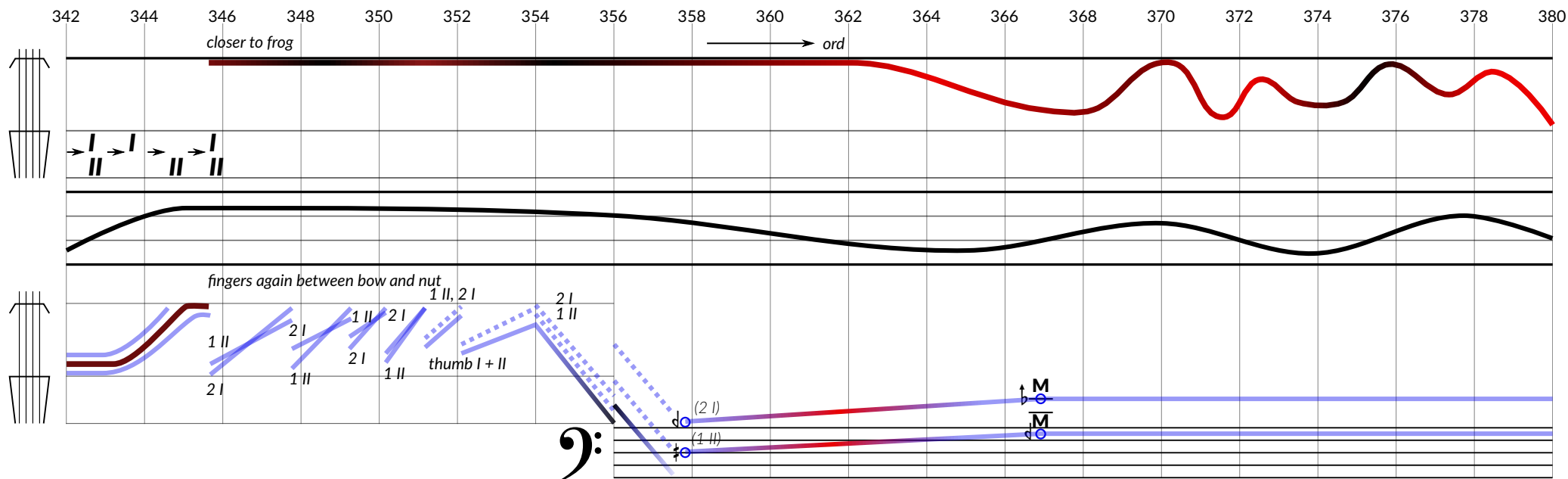
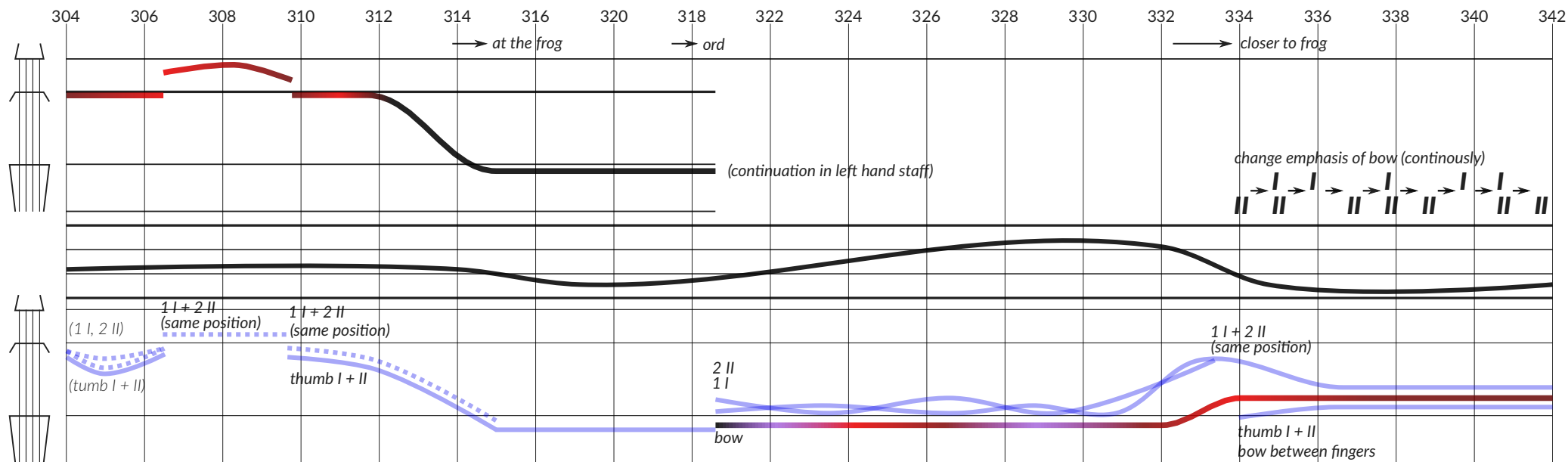
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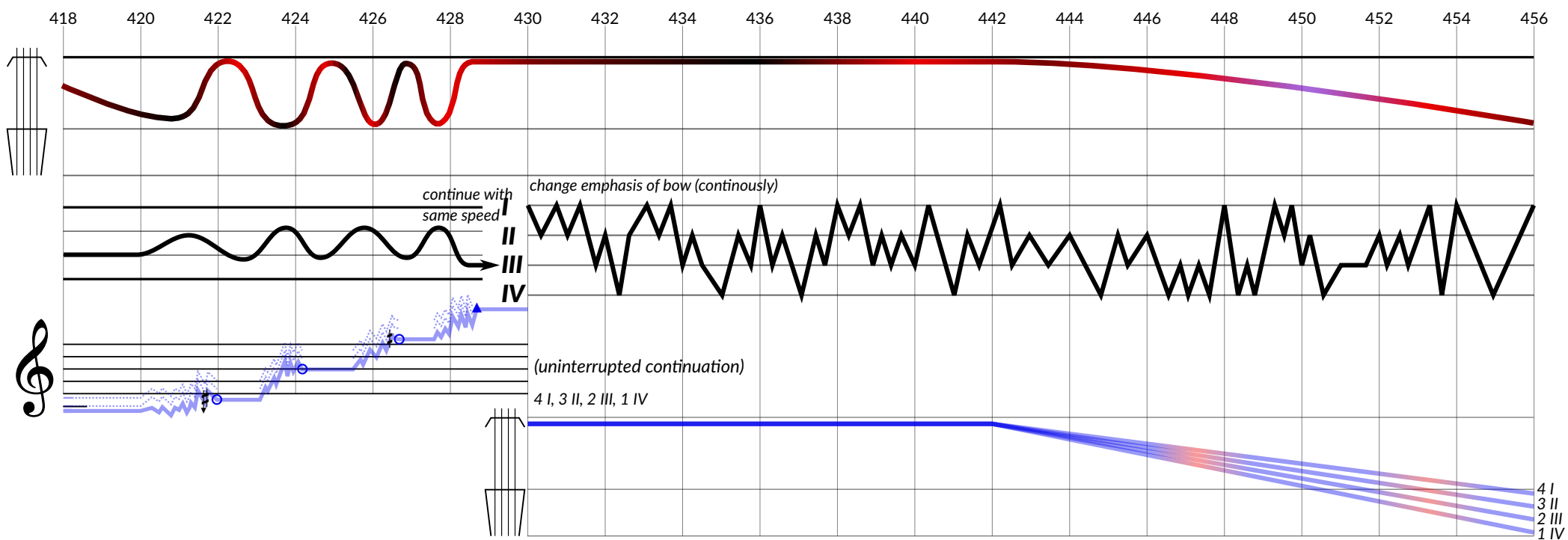
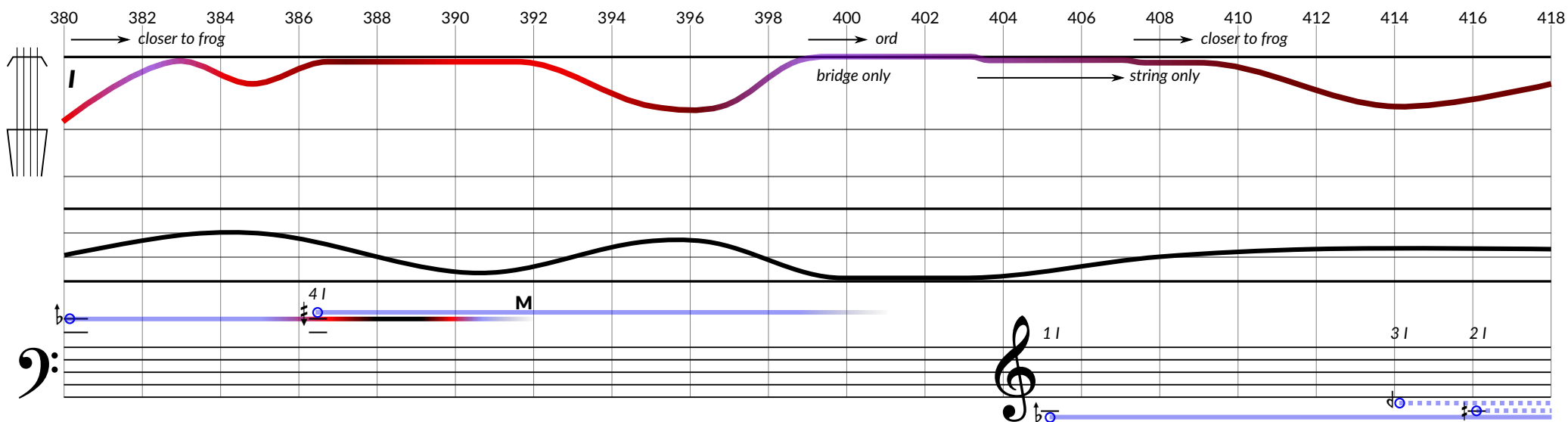


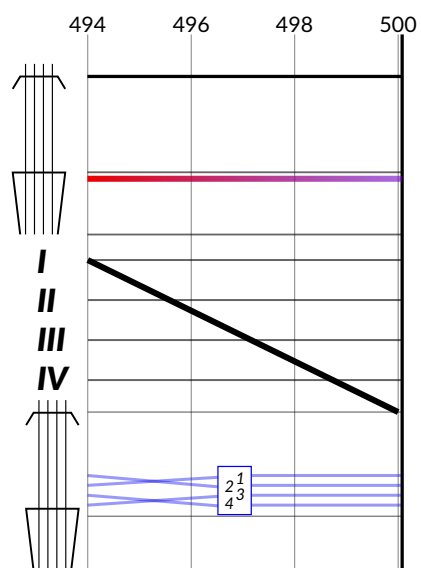
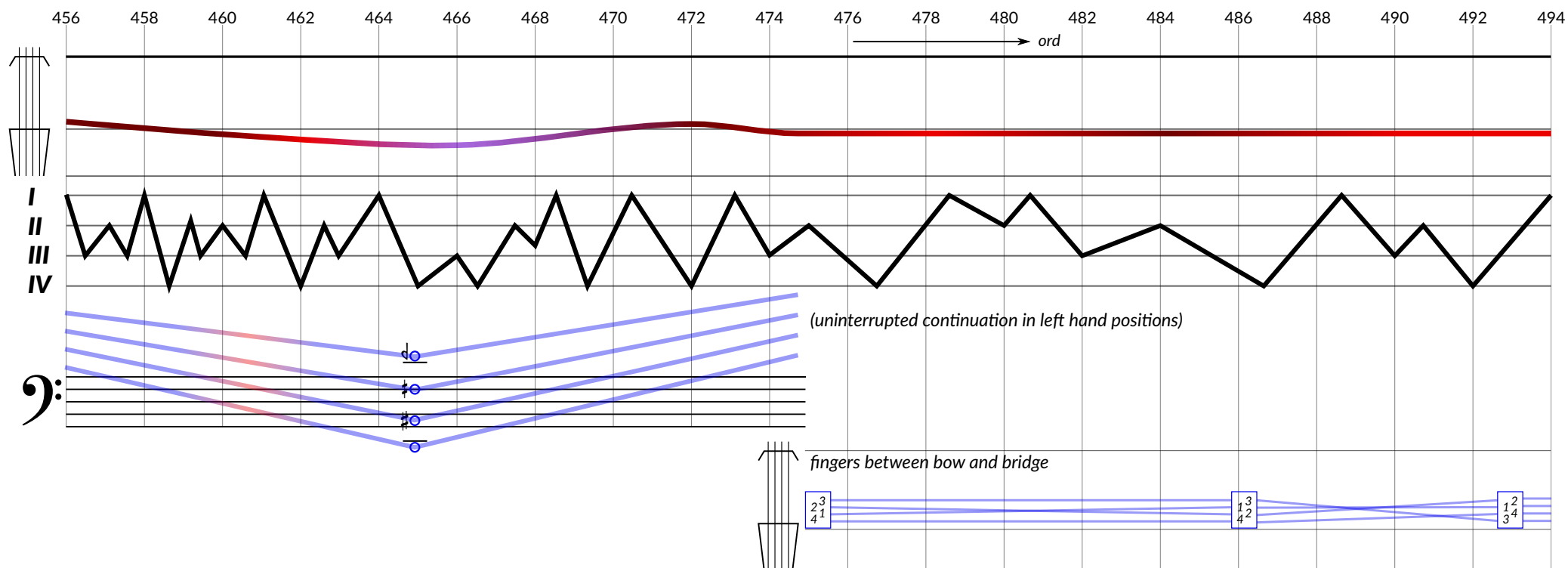












Berlin, August 2017