

yet another example of the porousness of certain borders

for Dario Calderone

Commissioned by impuls. International Ensemble and Composers Academy for Contemporary Music, Graz/Austria • Premiered at Gaudeamus Muziekweek 2015, Utrecht/Netherlands Part of the project Solo Double Bass within the Ulysses Network • impuls.cc • muziekweek.nl • project.ulysses-network.eu

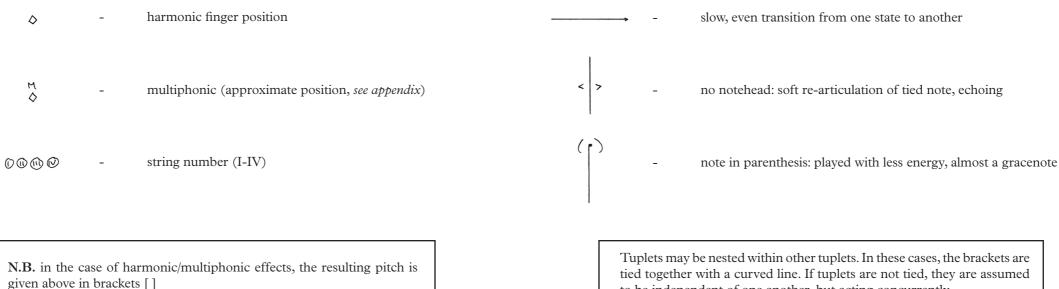
performance notes

for solo contrabass

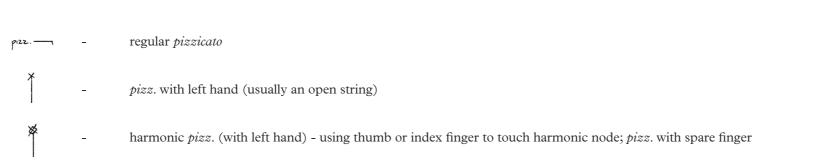
 $\{E_1-A-D-G\}$, sounds one octave lower

fragile. extremely quiet. faltering, always unstable.

notation



pizzicato



Oliver Thurley, 2014

ca. 10'

to be independent of one another, but acting concurrently.

7:5

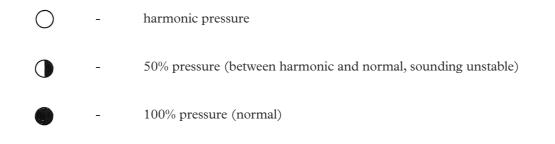
______ 5:4 _____

bow position

MST	-	molto sul tasto: close to left hand		bow on harmonic node. lighter <i>flauta</i> harmonic tone, or slow/overpressure
ST	-	sul tasto		
ord.	-	ordinary bow position	-	bow on tailpiece. strings and body re (particularly at the thinner section) b
SP	-	sul ponticello	·	
MSP	-	<i>molto sul ponticello</i> : almost on the bridge: a sharp tone, with crisp harmonic partials	bow -	bracket indicates a single (or significates used to slow bow movement significates as the bow sticks and slips

finger pressure

The left-hand finger pressure compressing a note may shift, cause the string to sound as either regular tone, harmonic or otherwise destabilised.



Unless indicated otherwise, presume all events are performed ord. in terms of bow position and finger pressure.

utando for a shadowy, filtered re to bring out sub-harmonic

y resonate. overpressure a) brings out 'squeak'

ficantly slowed) bow length. icantly: the tone should falter

general notes

multiphonics

Multiphonics are notated as a harmonic position with an 'M' (and string number I-IV). The theoretical sounding pitches are given in a bracketed staff above the main stave. String multiphonics are achieved through clusters of close harmonic nodes, and by playing a harmonic close to the highest partial. Above the sounding pitches, the sounding partials are given (i.e. $M \text{ IV}[4^{\text{th}} + 13^{\text{th}} + 9^{\text{th}} + 15^{\text{th}} + 5^{\text{th}}]$). Note that not all of these pitches will actually sound.

waveform dynamics

Dynamics of the piece are given through the waveforms below the stave. The waveforms should be read in the manner of a continuous dynamic hairpin. The dynamic bandwidth is extremely limited, ranging from roughly pppppp-ppp. As the waveform is in a continuous state of flux, the performer must make constant minute adjustments to bow pressure; inevitably this will result in tremors, fluctuations and instability in amplitude.

remarks on quietness

The volume for this piece is *extremely* low. It is intended that many of the notes (particularly the multiphonics) will not sound as written. Indeed, many pitched tones will falter, fail to sound, or fracture completely. The entire piece is fragile and remains porous to the agency of the performer.

amplification

Depending upon the size and acoustic nature of the performance space, the performer can choose either to play acoustically, or amplified. If amplified, the sound should be clean at all times, though the level is left to the performer. If desired, a lower level may be used as a transparent tool to bolster the sound of the instrument, or-alternativelyone may pursue a higher volume. In this case amplification is to be used as a microscope for drawing listeners 'inside' the sound. Close-mic techniques (using small diaphragm condensers and avoiding interference with the performance) should be used to focus upon key areas of the bass which may afford a unique listening perspective. These might include (but are not limited to):

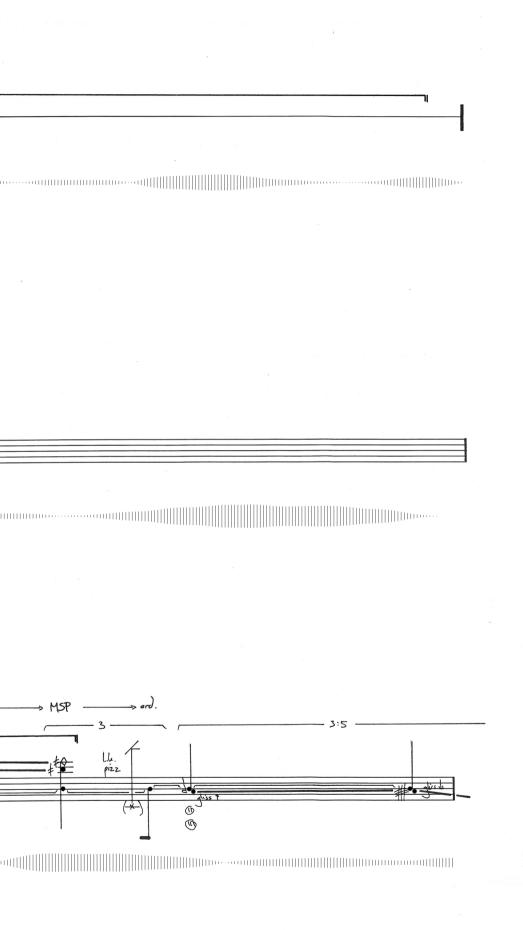
- Internal microphone placement (Inside the body of the instrument)
- Contact microphones, or small lavalier mics on the tailpiece, body and head of the instrument •
- Stereo string imaging (Mics on string I and IV, panned hard left and right) ٠
- Lavalier mic on the performer (to accentuate breathing etc.) •

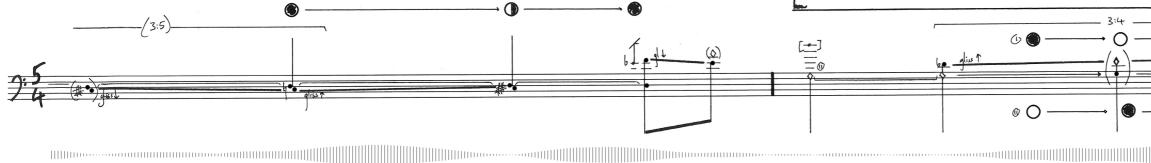
second draft version: 1.0 [August, 2015]

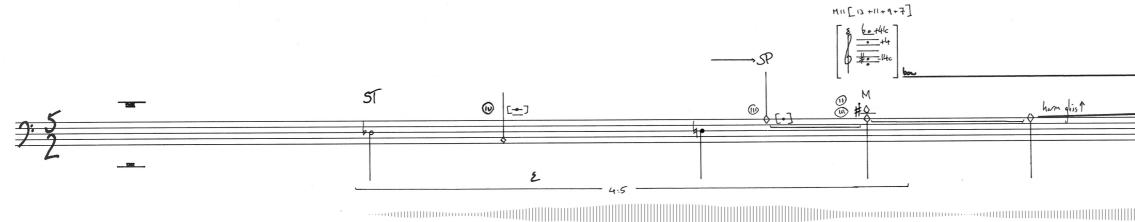
> Oliver Thurley Winter, 2014

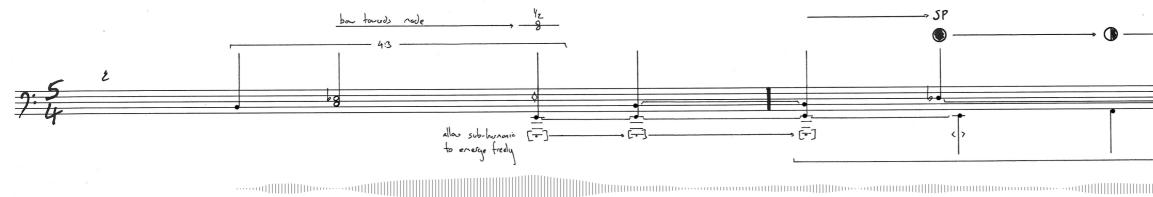
yet another overple of the porousness of contain borders strings unruted, allow to resonate overpressure brings 'squeek'! tailpièce 1/2 bow length $\prod_{i=1}^{n}$ MIV [4+13+9+15+5] = 30 - 40 £00 +410 €0 +40 (\mathbf{J}) Ho -14 52 ∰ SP into multiphonic M O @ �[=] hon glis \mathbb{O} l.l.. pizz 惨 8 2: (*

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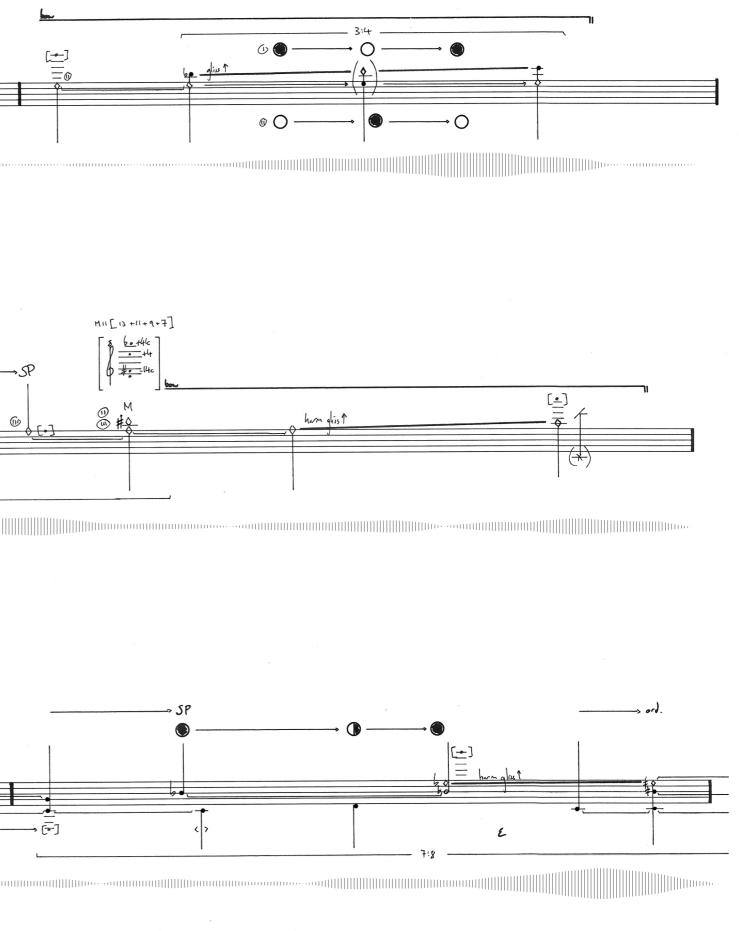


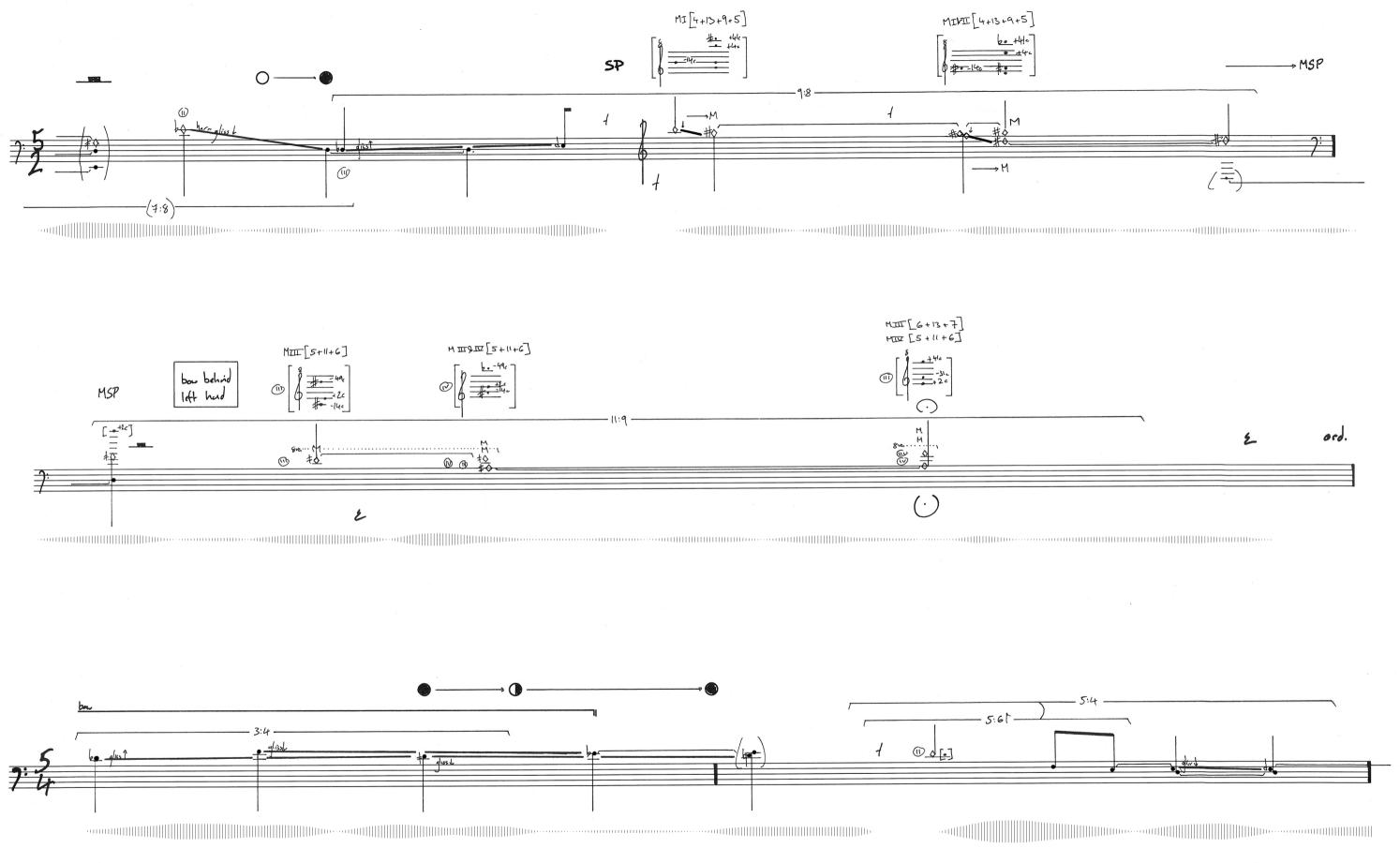


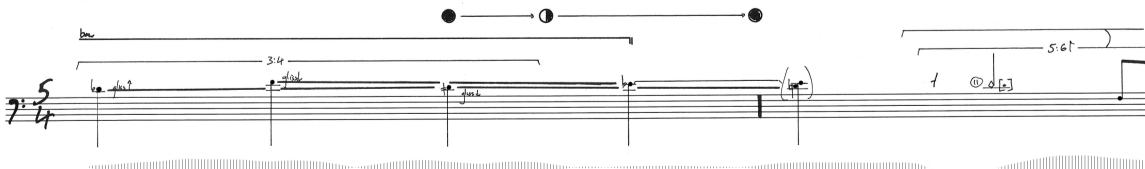




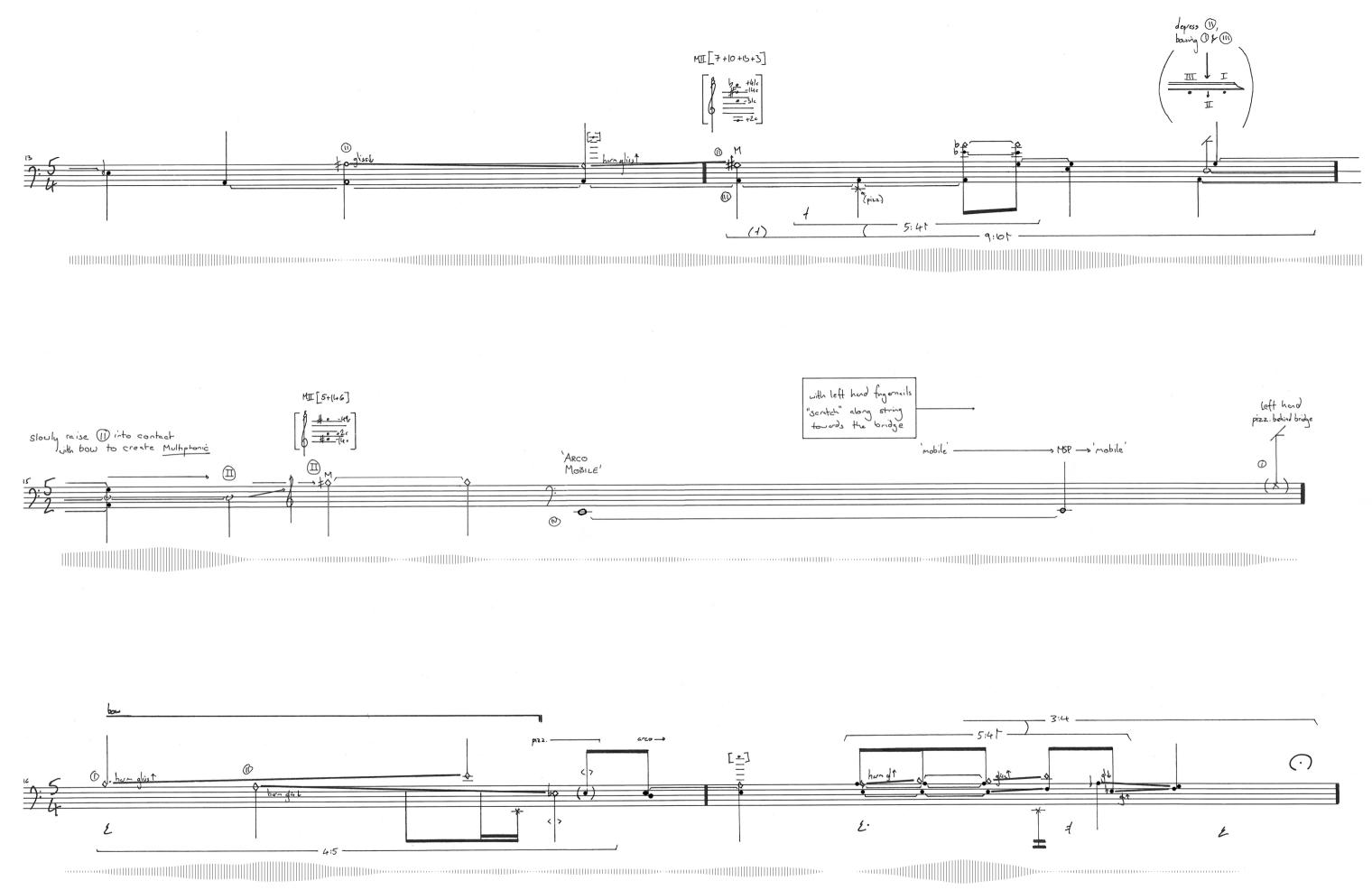
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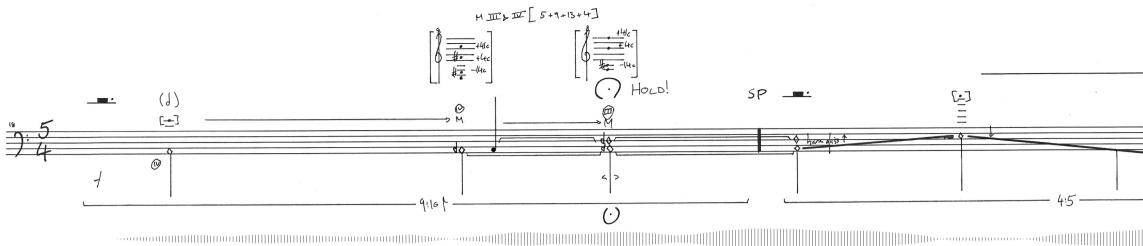


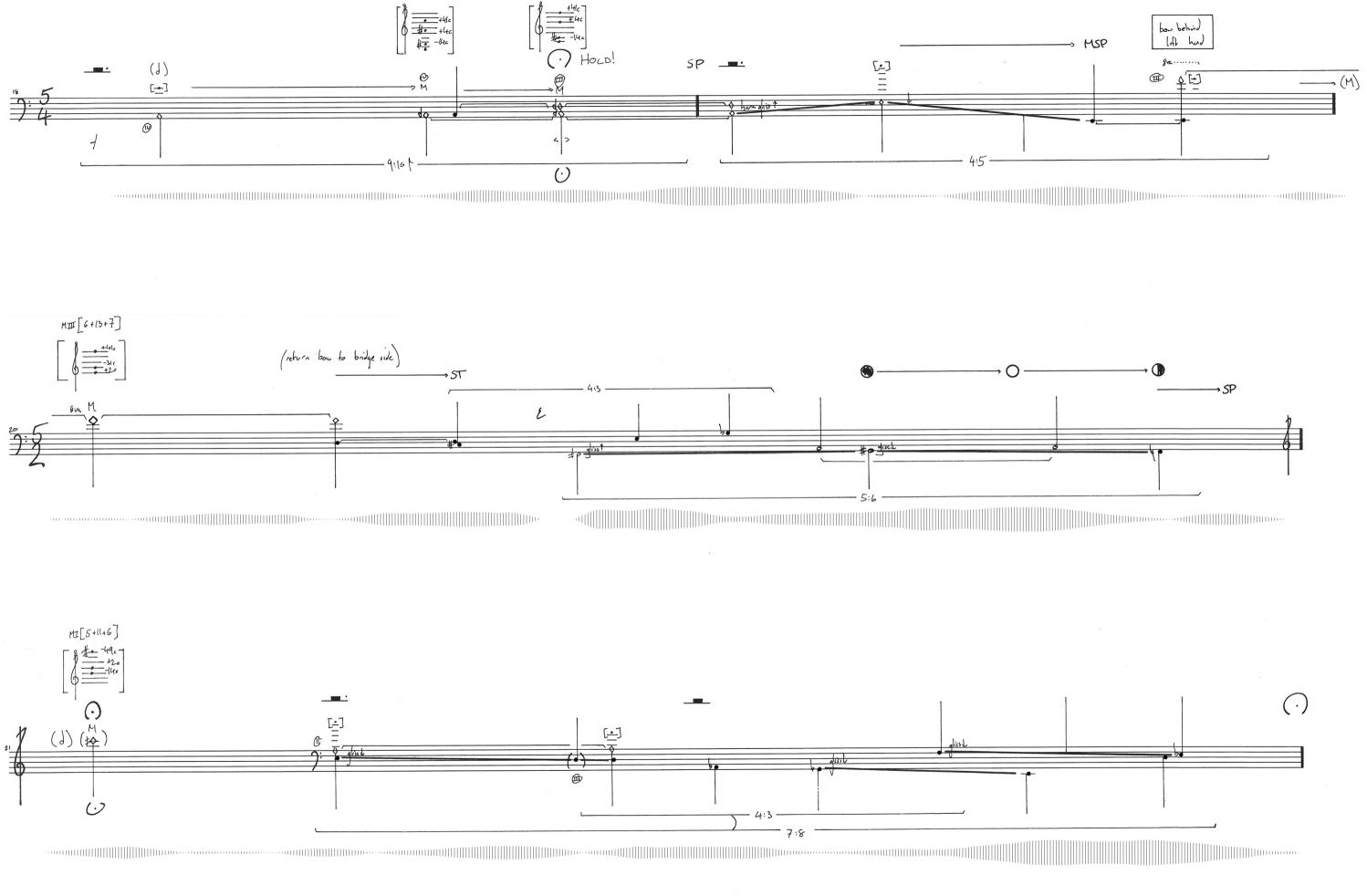


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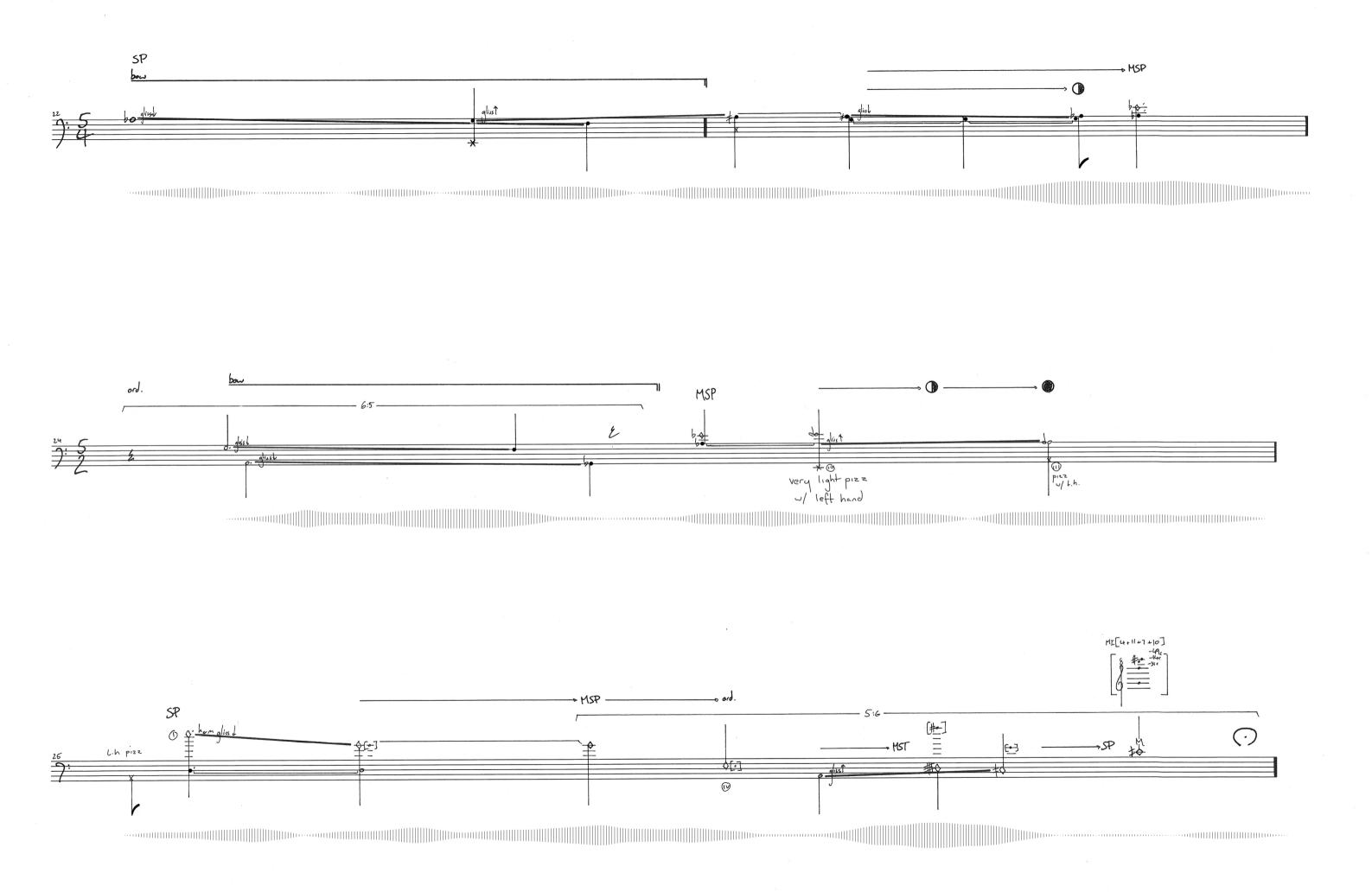


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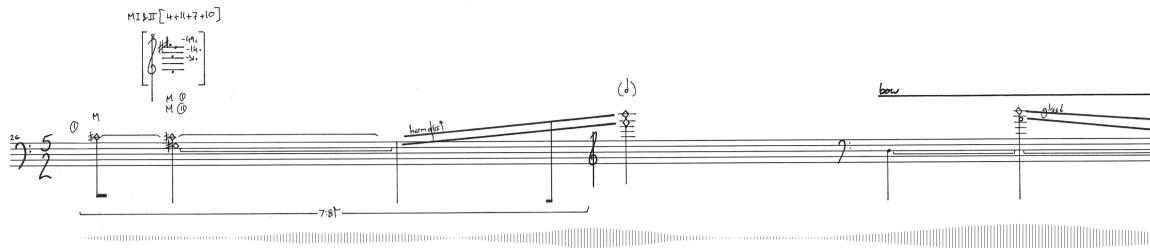


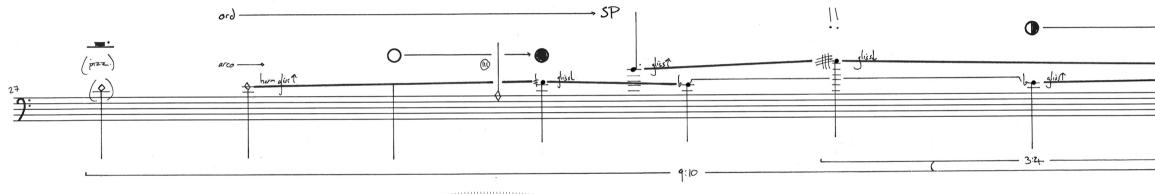


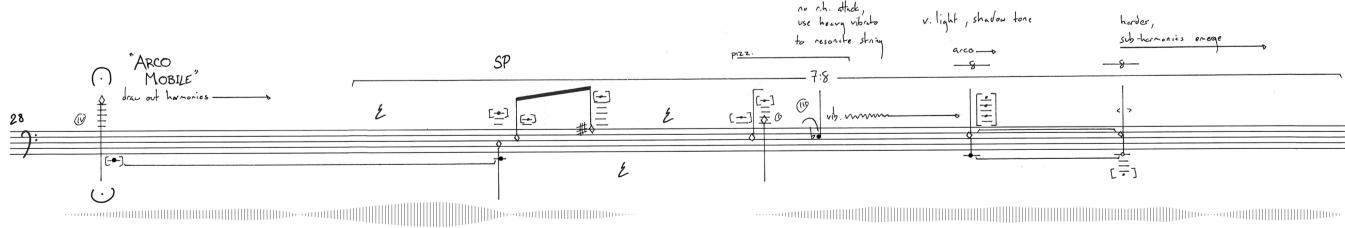
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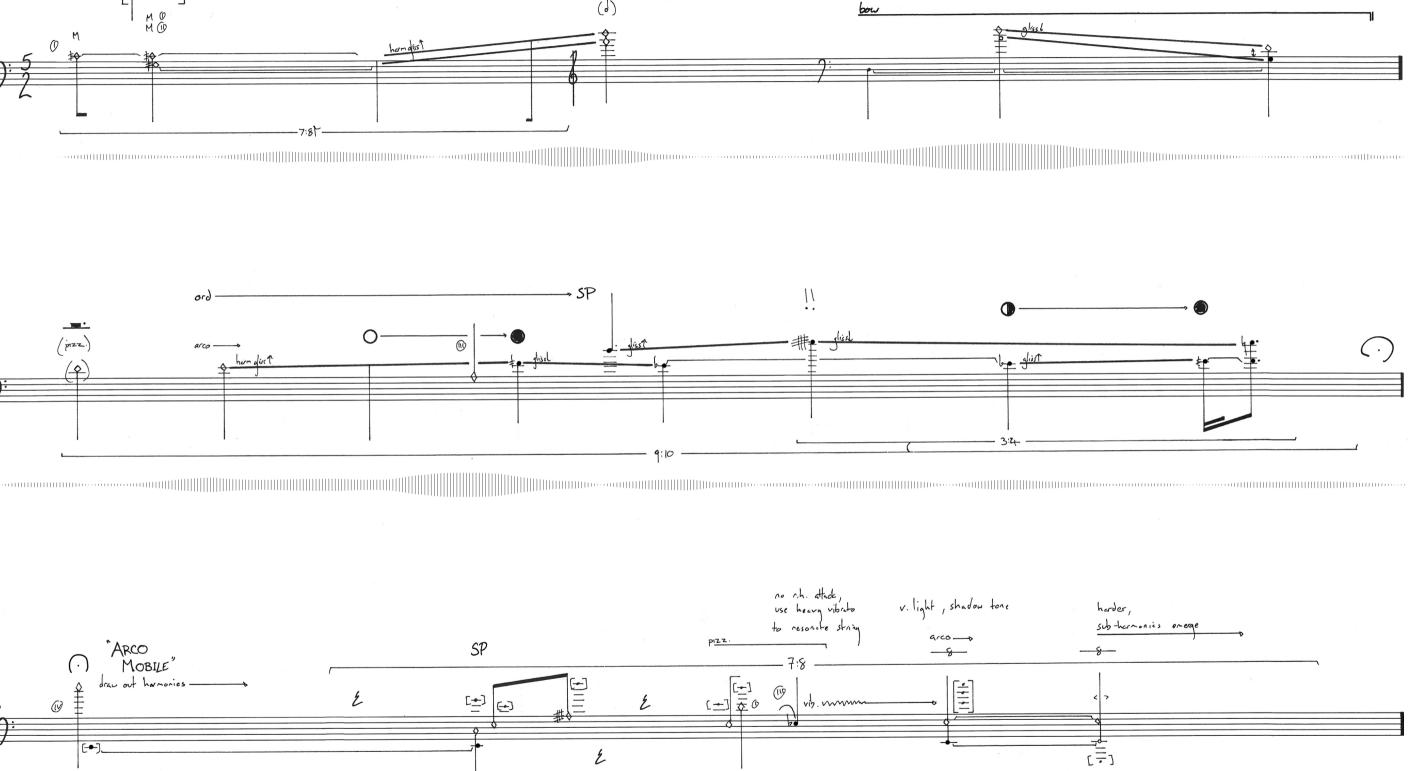
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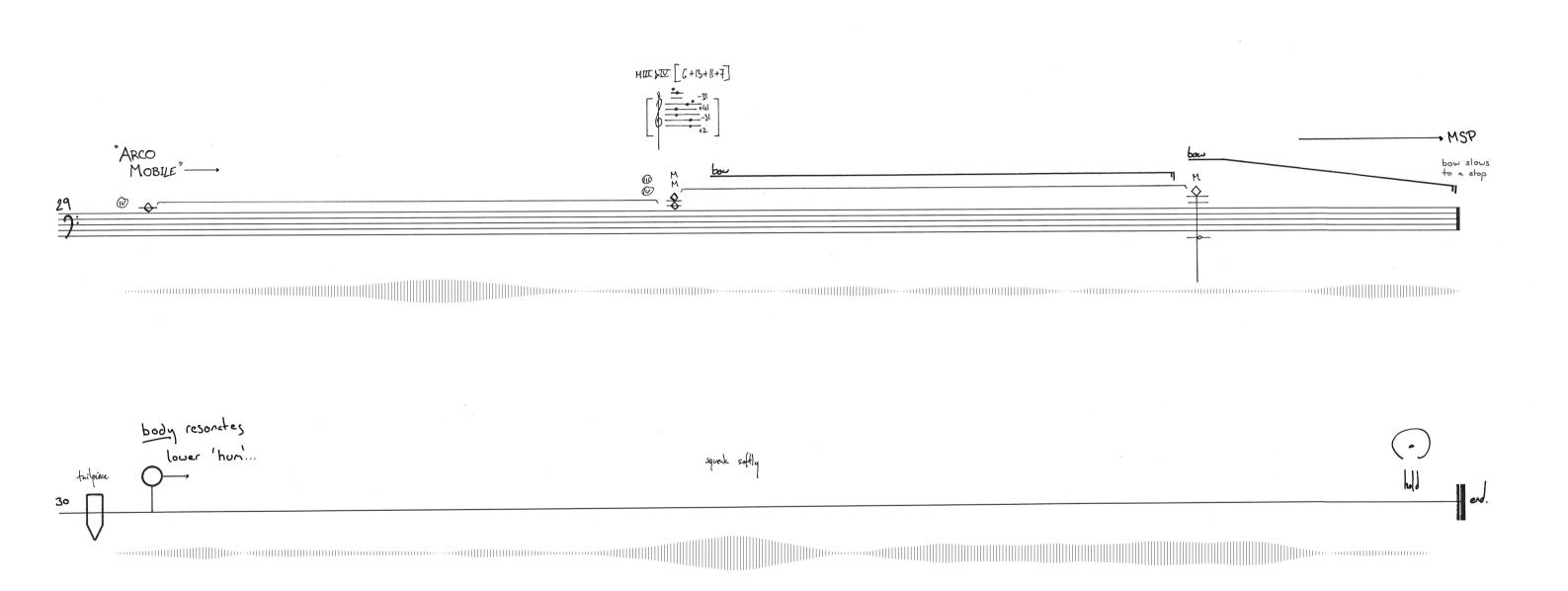






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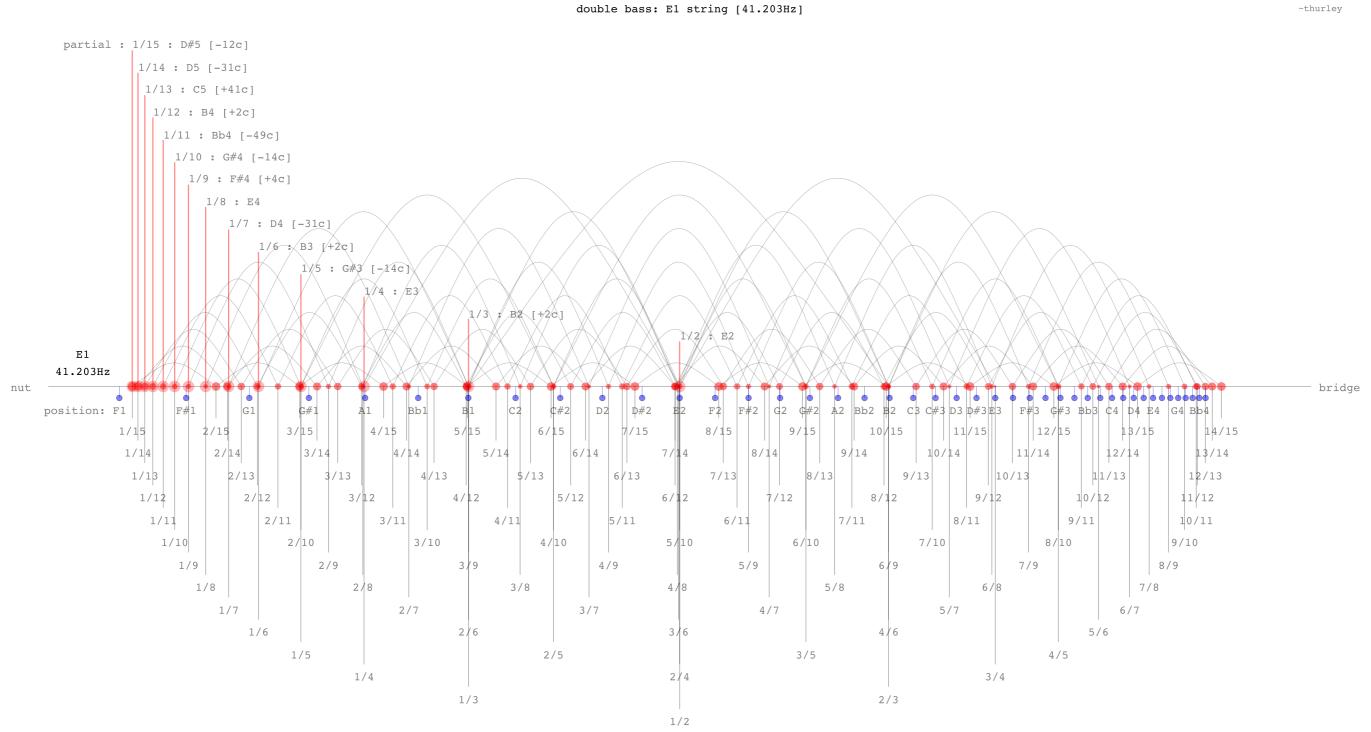




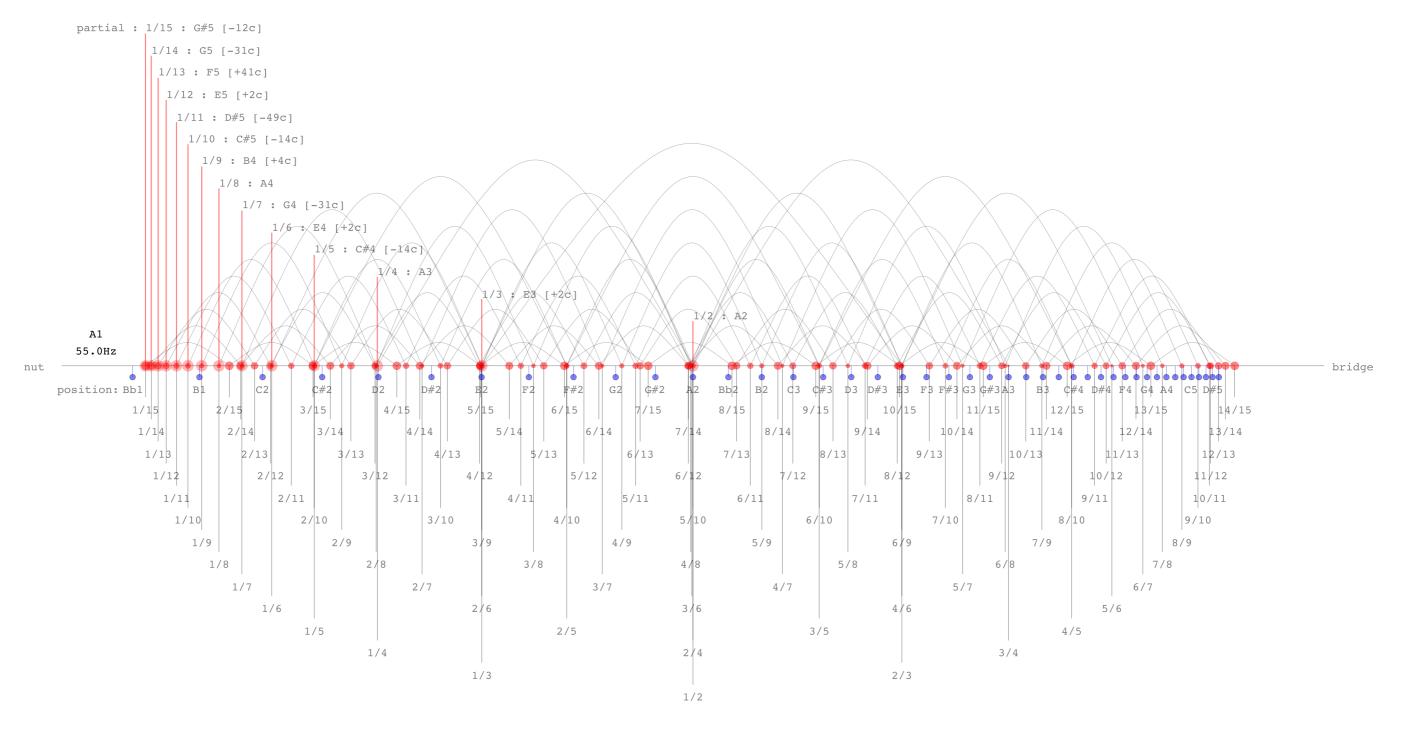
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appendix: harmonic & multiphonic charts

The following charts were drawn up in the process of locating the theoretical harmonic and clustered multiphonic nodal points for the piece. They are included here in case they are of use to the performer in interpreting the score.



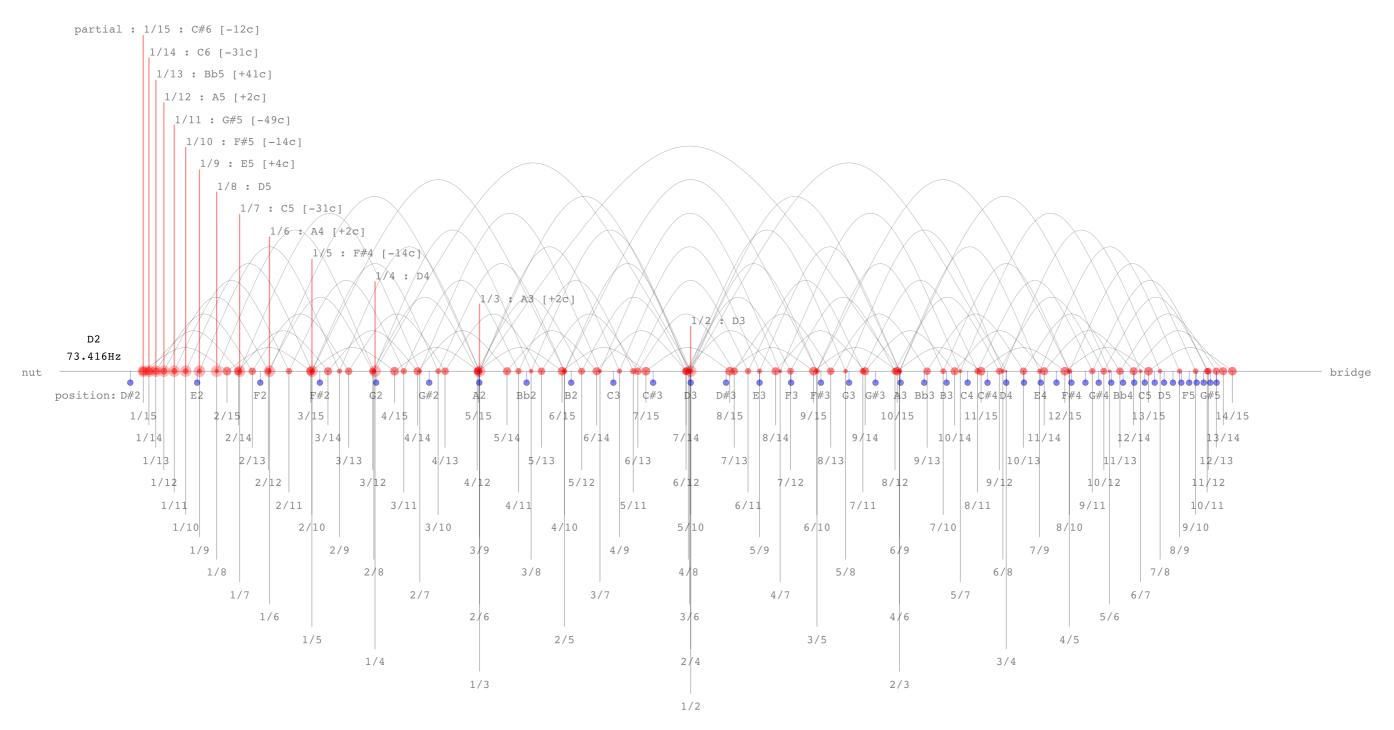
⁺ These charts are derived from the excellent research on 'cello multiphonics by Ellen Fallowfield (cellomap.com).



double bass: A1 string [55.0Hz]

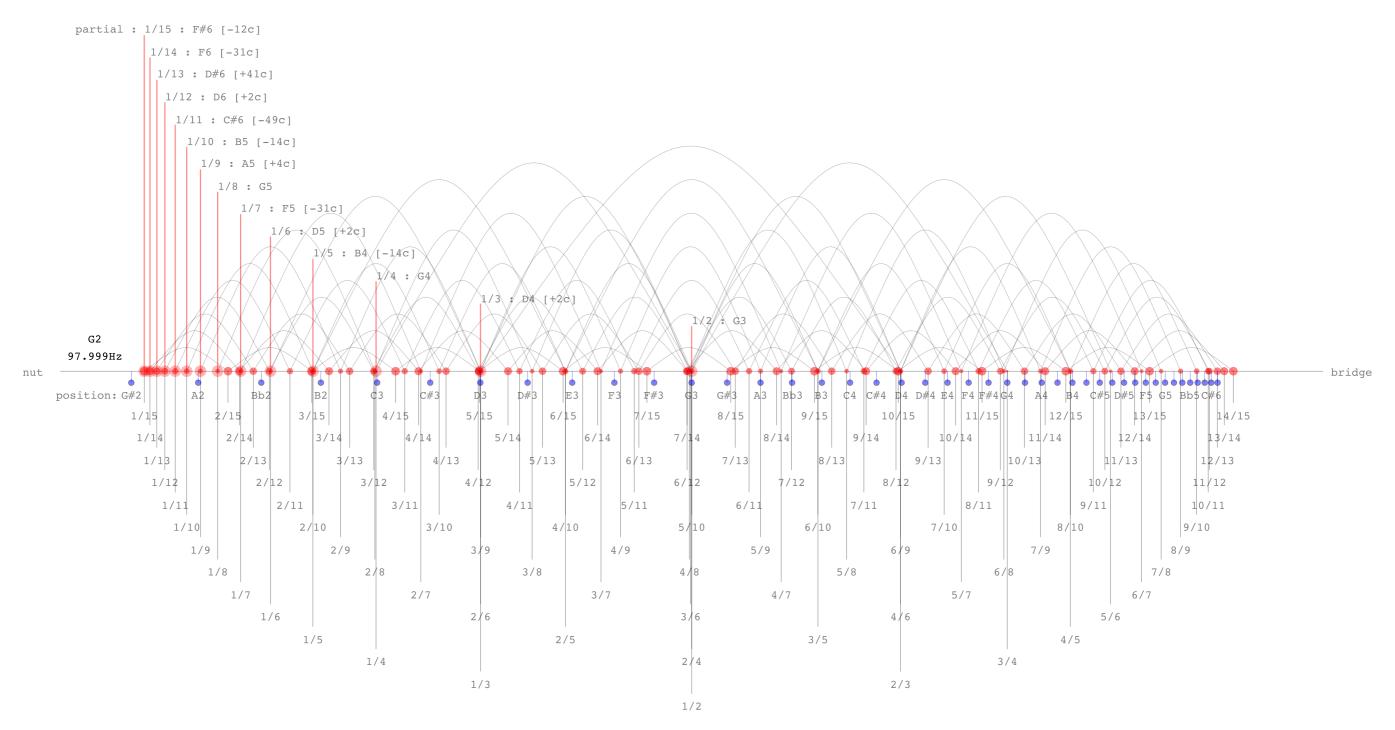
(appendix: harmonic charts, continued)

double bass: D2 string [73.416Hz]



(appendix: harmonic charts, continued)

double bass: G2 string [97.999Hz]



(appendix: harmonic charts, continued)