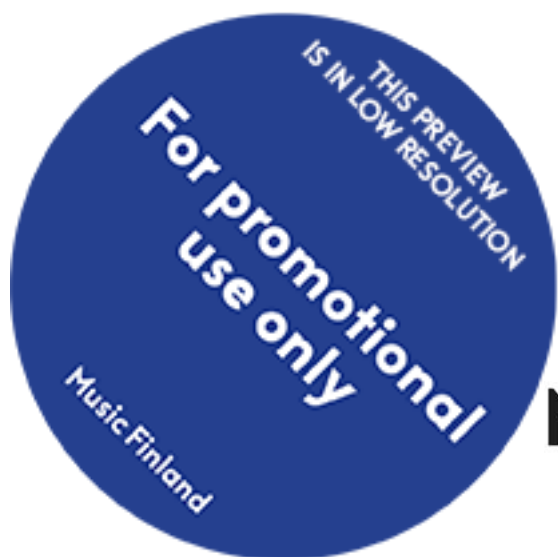


Jennah Vainio

Critical Mass

for String Orchestra

1999 - 2000



Music Finland

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
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Critical Mass


EXPLANATORY NOTES

 = the highest possible note (ordinary playing style)

Z = uneven tremolo

 = Bartok pizzicato

 = Quarter-tone flat

 = Quarter-tone sharp

clb. = col legno battuto

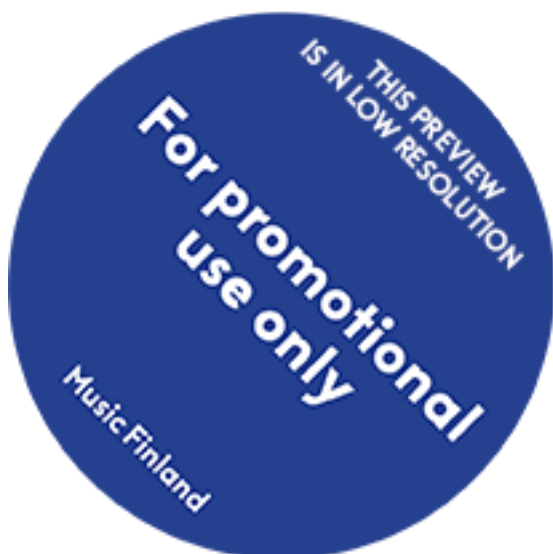
pizz. secco = the note sounds strictly according to the noted value

ric. = ricochet

ric. gliss. = ricochet glissando

s. p. = sul ponticello

s. t. = sul tasto



Critical Mass

for String Orchestra

♩ = 46 Tranquillo

Jan Mikael Vainio 1999-2000

Violin I.1

Violin I.2

Violin I.3

Violin I.4

Violin II.1

Violin II.2

Violin II.3

senza espressione
pizz. secco

pp 3

pizz.

clb. 3

senza espressione
pizz. secco

pp

clb.

pizz. secco 3

pizz.

3

senza espressione
pizz. secco

pp

3

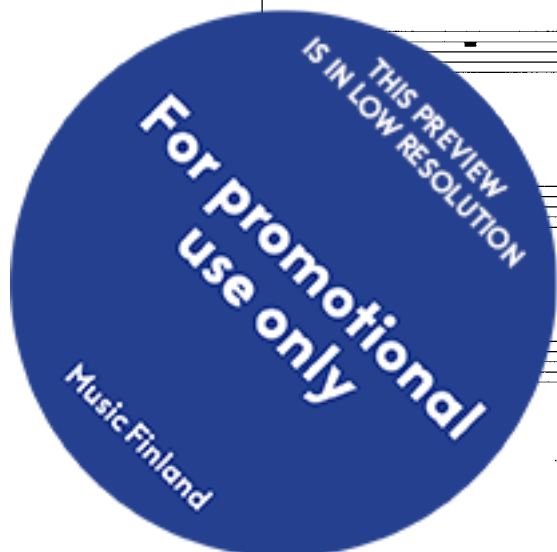
pizz.

clb.

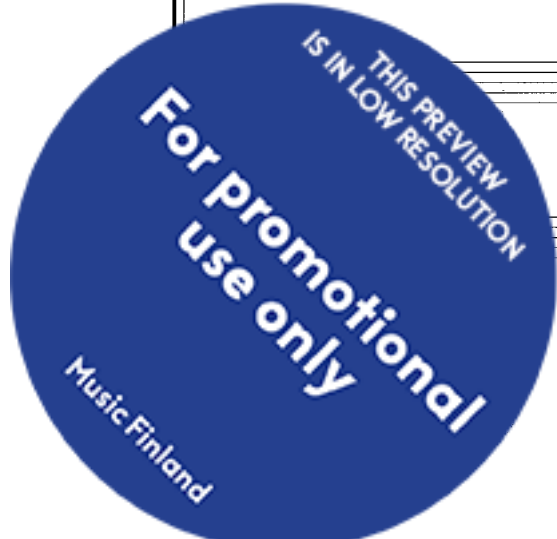
pizz.

Viola I

Viola II



Violin I (Vln. I.1, Vln. I.2, Vln. I.3, Vln. I.4), Violin II (Vln. II.1, Vln. II.2, Vln. II.3), Viola I (Vla I), Viola II (Vla II), and Violoncello I (Vlc I) staves. The score includes various performance instructions such as *pizz. secco*, *clb.*, *pizz.*, *non vibr.*, and dynamic markings like *ppp* and *pp*. Trill ornaments are marked with a '3' and a bracket. The Vln. I.4 staff has a measure with a trill starting at measure 4, marked *non vibr.* and *ppp*. The Vln. II.1-3 staves have complex rhythmic patterns with trills and pizzicato markings. The Vla I and Vlc I staves have trills starting at measure 4, marked *non vibr.* and *ppp*. The Vlc I staff has a measure with a trill starting at measure 4, marked *non vibr.* and *ppp*.



7 non vibr. 3 ppp ppp ppp ppp

Vln. I.1

Vln. I.2

Vln. I.3

Vln. I.4

punta d'arco p

ord. gliss.

Vln II.1

Vln II.2

Vln II.3

pizz. 3

7 punta d'arco ord. 3 gliss.

Vla I

Vla II

punta d'arco p ord. 3 gliss.

Vlc I

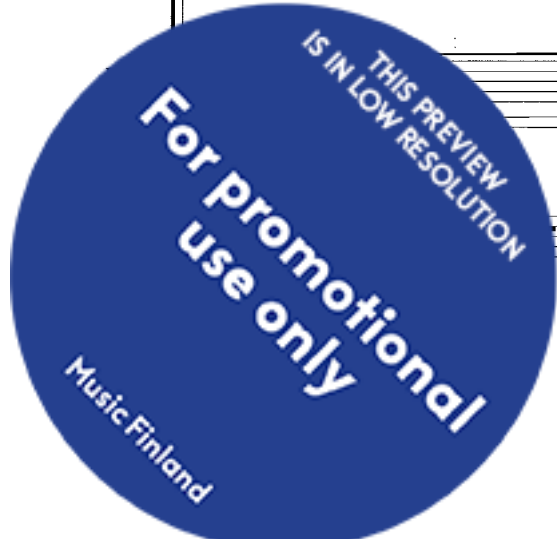
punta d'arco p ord. gliss. lento

pp

pizz. 3



Violin I (Vln. I.1-4) and Violin II (Vln. II.1-3) parts are in treble clef. Viola I (Vla I) and Viola II (Vla II) are in alto clef. Violoncello I (Vlc I) is in bass clef. The score includes various dynamics such as *mp* (mezzo-piano) and *p* (piano), and performance instructions like *gliss.* (glissando), *pizz.* (pizzicato), and *clb.* (col legno). Trills and triplets are also present.



11 vibr. poco a poco

Vln. I.1

Vln. I.2

Vln. I.3

Vln. I.4

Vln II.1

Vln II.2

Vln II.3

Vla I

Vla II

Vlc I

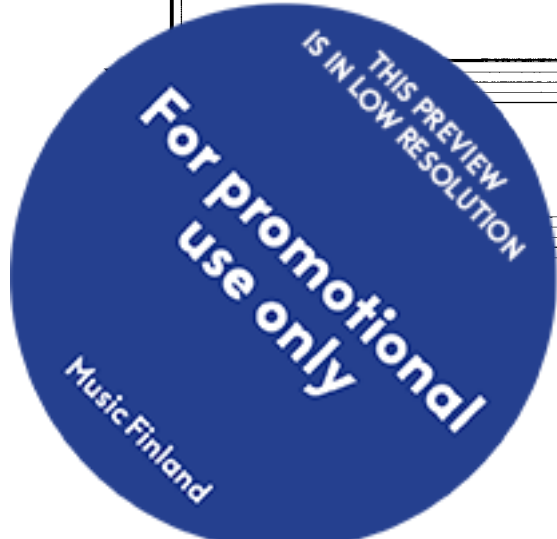
pizz.

clb.

3

espr.

mp



espr. 3

Vln. I.1 poco a poco cresc. mp mf

Vln. I.2 poco a poco cresc. espr. mp mf

Vln. I.3 poco a poco cresc. espr. mp mf

Vln. I.4 poco a poco cresc. espr. mp mf

Vln II.1 pizz. gliss. poco a poco cresc. 3 f l.v.

Vln II.2 pizz. gliss. poco a poco cresc. 3 f l.v.

Vln II.3 pizz. gliss. poco a poco cresc. 3 f l.v.

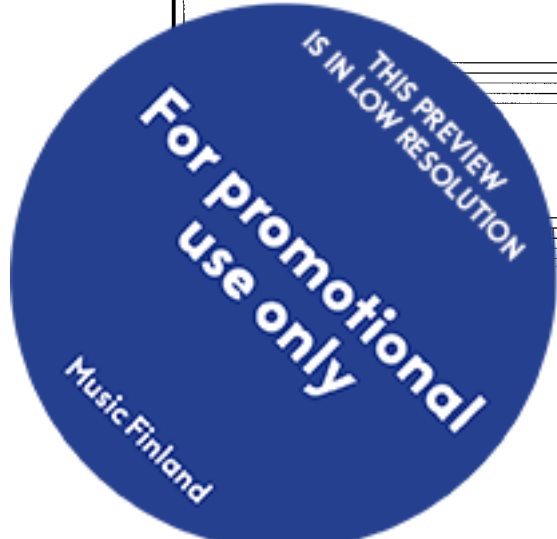
Vla I 13 pizz. gliss. poco a poco cresc. f l.v.

Vla II poco a poco cresc. espr. 3 mp mf

Vlc I arco ord. poco a poco cresc. espr. 3 mp mf

espr. 3 mp mf

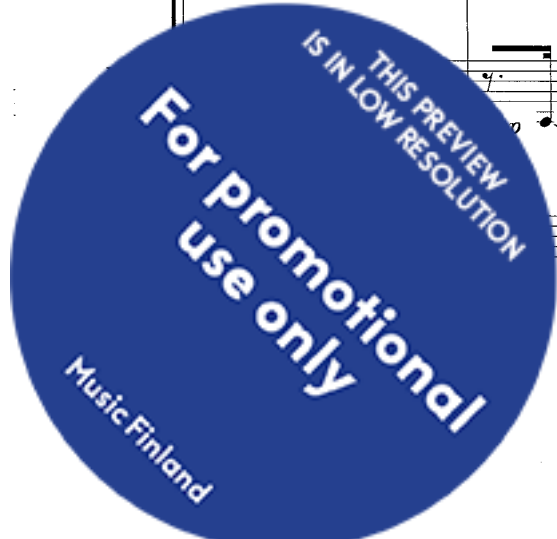
3 mf



The musical score is arranged in three systems. The first system includes Violins I (Vln. I.1, Vln. I.2, Vln. I.3, Vln. I.4), Violins II (Vln. II.1, Vln. II.2, Vln. II.3), and Viola I (Vla I). The second system includes Violins II (Vln. II.1, Vln. II.2, Vln. II.3) and Viola II (Vla II). The third system includes Viola I (Vla I) and Viola II (Vla II). The score is in 3/4 time and features various dynamics (mp, mf), articulations (pizz.), and ornaments (clb.).



Violin I (Vln. I.1-4) and Violin II (Vln. II.1-3) parts feature complex rhythmic patterns with triplets and dynamic markings such as *mf*, *f*, *sub. mp*, and *subito mp*. The Viola I (Vla I) and Viola II (Vla II) parts include triplets and dynamic markings like *mp* and *mf*. The Violoncello I (Vlc I) part features triplets and dynamic markings including *mf* and *mp*. Performance techniques such as *pizz.*, *gliss.*, *clb.*, and *arco* are indicated throughout the score.



Violin I (Vln. I.1, Vln. I.2, Vln. I.3, Vln. I.4), Violin II (Vln. II.1, Vln. II.2, Vln. II.3), Viola I (Vla I), Viola II (Vla II), and Violoncello I (Vlc I) parts. The score includes various musical notations such as dynamics (mp, mf), articulation (pizz., pizz. gliss.), and performance techniques (clb., arco ord.).



28

Vln. I.1 cresc. e stringendo *mp* espr.

Vln. I.2 cresc. e stringendo *mp* espr.

Vln. I.3 cresc. e stringendo *mp* espr.

Vln. I.4 *mp* cresc. e stringendo

Vln II.1 *mp* cresc. e stringendo

Vln II.2 *mp* cresc. e stringendo

Vln II.3 *mp* cresc. e stringendo

Vla I 28 *mp* cresc. e stringendo

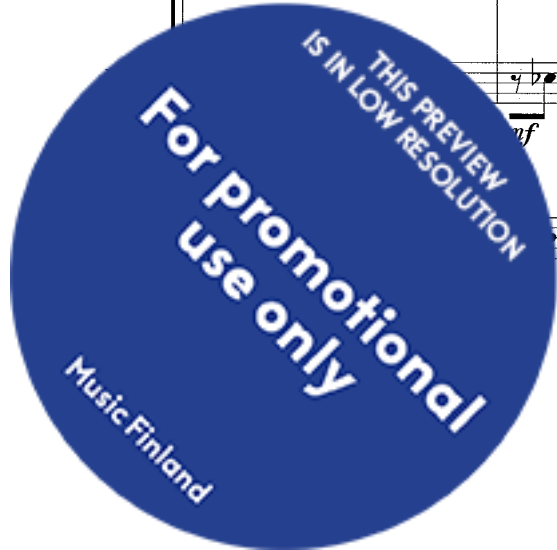
Vla II *mp* cresc. e stringendo

Vlc I arco *mf* *mp* cresc. e stringendo

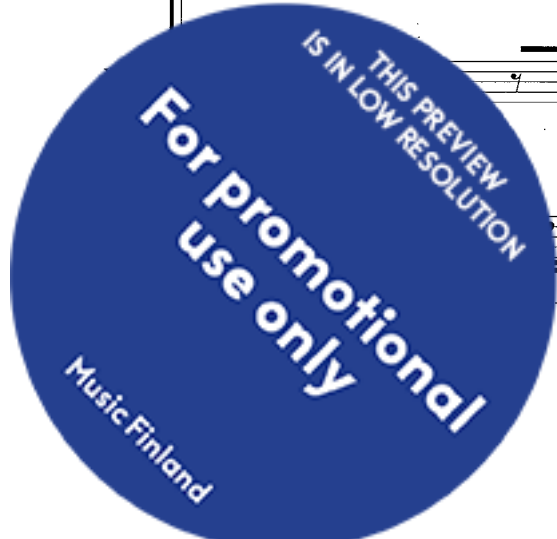
mf *mp* cresc. e stringendo

mp cresc. e stringendo

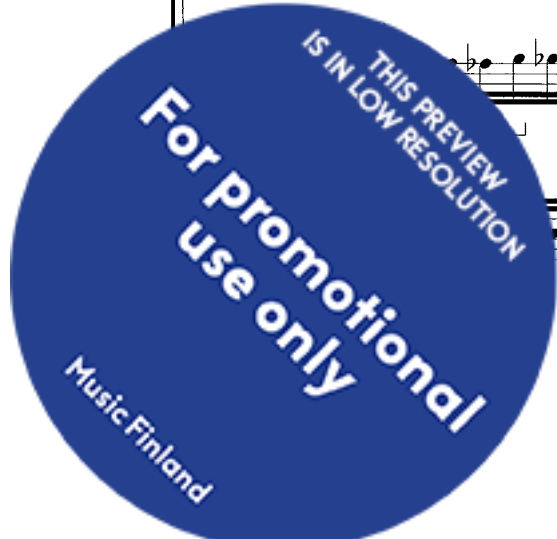
Dynamic and performance markings include *cresc. e stringendo*, *mp*, *espr.*, and *arco*. Trills are indicated by a bracket with the number 3 above them. The score is in treble and bass clefs.



The image displays a page of a musical score for a string ensemble, specifically measures 33 through 35. The score is organized into four systems of staves. The first system contains four staves for Violins I (Vln. I.1, Vln. I.2, Vln. I.3, and Vln. I.4). The second system contains three staves for Violins II (Vln. II.1, Vln. II.2, and Vln. II.3). The third system contains two staves for Violas (Vla I and Vla II). The fourth system contains two staves for Violas and Celli (Vlc I and Vlc II). The notation includes various rhythmic values, accidentals, and articulation marks such as slurs and triplets. The first measure of each system is marked with the number '33'. The second and third measures of each system contain triplets, indicated by a bracket with the number '3' above or below the notes. The Violin I parts feature glissando markings ('gliss.') in the second and third measures. The Violin II parts feature slurs and triplets. The Viola and Cello parts feature slurs and triplets. The overall texture is dense and rhythmic.



The musical score is arranged in systems for Violins I (Vln. I.1-4), Violins II (Vln. II.1-3), Violas (Vla I, Vla II), and Violas/Celli (Vlc I). The score includes various musical notations such as triplets, quintuplets, glissandos, and dynamic markings. Performance instructions like 'strascinando l'arco' are present. The score is divided into measures, with measure numbers 36 and 37 indicated.



arco ord.

Vln. I.1

mf

Vln. I.2

pizz.

mf

Vln. I.3

arco ord.

mf

Vln. I.4

Vln II.1

Vln II.2

arco ord.

mf

tr

pizz.

Vln II.3

mf

Vla I

40

Vla II

arco ord.

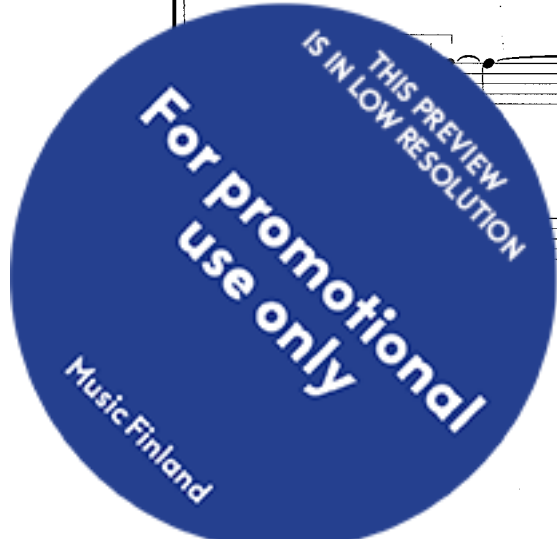
mf

pizz. \circ

Vlc I

mf

pizz.



43

Vln. I.1 arco s.p. mp

Vln. I.2 arco s.p. mp

Vln. I.3 arco s.p. 5 simile 3 mf

Vln. I.4 pizz. mf arco s.p. 3 mp

Vln. II.1 pizz. mf arco s.p. mp mf s.p. 3 mf

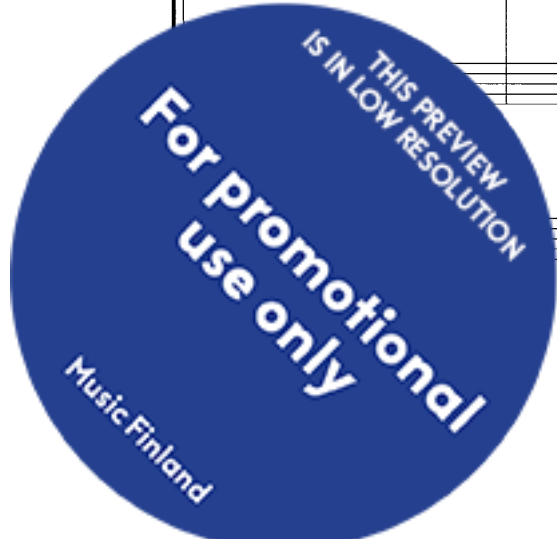
Vln. II.2 arco s.p. mp mf s.p. 3 mf

Vln. II.3 s.p. mp mf s.p. 3 mf

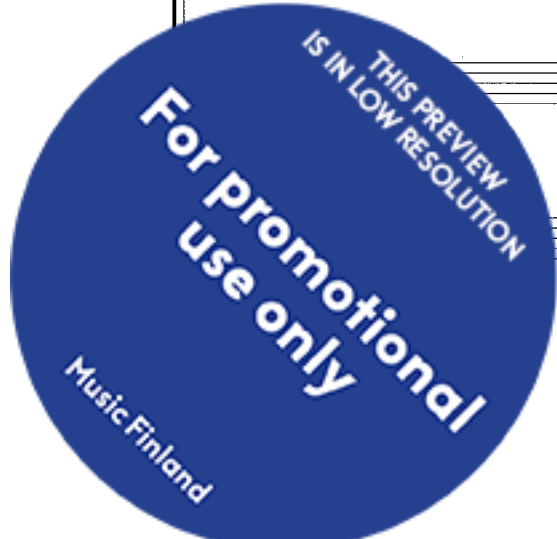
Vla I 43 s.p. mp mf s.p. 3 mp

Vla II pizz. mp arco s.p. 3 mf

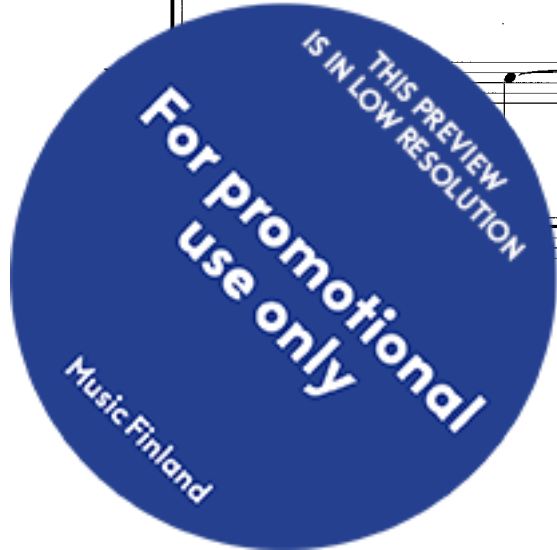
Vlc I s.p. mp mf s.p. 3 mp arco s.p. 3 mp



Violin I (Vln. I.1-4) and Violin II (Vln. II.1-3) parts feature complex rhythmic patterns with sixteenth and thirty-second notes, often grouped with slurs and fingering numbers (5, 6, 3). Dynamic markings include *mf*. The Viola I (Vla I) and Viola II (Vla II) parts are in the bass clef, with dynamic markings *mf* and *s.p.* (sotto piano). The Viola I part includes a *ord.* (ordinario) marking. The Cello I (Vlc I) part is in the bass clef, with dynamic markings *mf* and *ord.*. The score includes various musical notations such as slurs, ties, and fingering numbers.



Musical score for Violins I, Violins II, Violas, and Violoncello. The score is in 3/4 time and features various musical notations including slurs, accents, and ornaments. Measure numbers 50 and 51 are indicated at the start of the first and sixth staves respectively. The Violins I part includes sixths and fifths. The Violins II part includes triplets and a quintuplet. The Violas and Violoncello parts include triplets and a quintuplet. The Violins I, II, and Viola parts include ornaments. The Violoncello part includes a triplet.



Vln. I.1

Vln. I.2

Vln. I.3

Vln. I.4

53

ord.

3

5

3

3

3

3

tr

tr

tr

Vln II.1

Vln II.2

Vln II.3

3

gliss.

gliss.

gliss.

Vla I

Vla II

53

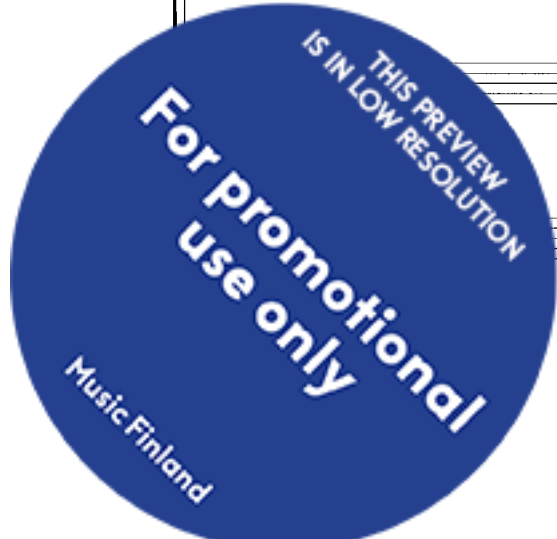
gliss.

3

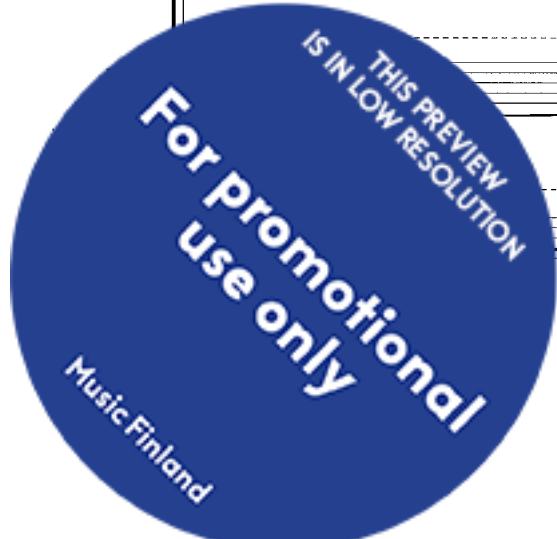
Vlc I



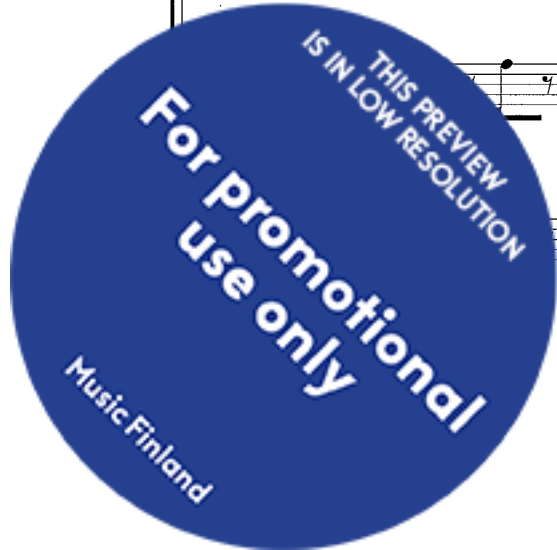
This musical score page contains the staves for Violins I (Vln. I.1-4), Violins II (Vln. II.1-3), and Viola (Vla. I, II). The score begins at measure 56. The Violin I parts feature melodic lines with triplets and glissandos, while the Violin II and Viola parts provide harmonic support with glissandos and trills. Dynamics include *f* and *fz*. Performance markings such as *s.p.* and *s.t.* are present. The score concludes at measure 60.



The musical score is arranged in a system with the following parts from top to bottom: Vln. I.1, Vln. I.2, Vln. I.3, Vln. I.4, Vln. II.1, Vln. II.2, Vln. II.3, Vla I, Vla II, and Vlc I. The first two measures are marked with a forte *f* dynamic. The first violin parts (I.1, I.2, I.3) feature a melodic line with a triplet of eighth notes followed by a five-measure phrase. The second violin and viola parts (II.1, II.2, I, II) play a sustained chord with a *s.p.* (sordano piano) marking. The cello part (Vlc I) plays a triplet of eighth notes. The score includes various musical notations such as slurs, ties, and dynamic markings.



The musical score is arranged in systems. The first system includes Violins I (Vln. I.1-4) and Violins II (Vln. II.1-3). The second system includes Viola I (Vla I), Viola II (Vla II), and Violoncello I (Vlc I). The score features complex rhythmic patterns with triplets and sixteenth notes. Performance markings include *ritenuto*, *mp*, *mf*, and *ric.* (ritardando). Technical markings include *3 gliss.* and *3* (triplet). A measure number '63' is present at the start of the first system.



The image displays a musical score for string instruments, specifically measures 66 through 68. The score is arranged in systems, with four staves for Violins I (Vln. I.1-4), three for Violins II (Vln. II.1-3), two for Violas (Vla I, II), and three for Cellos and Double Basses (Vcl I, II, III). The notation includes various string techniques such as triplets, glissandos (marked "ric. gliss."), and locos. Dynamic markings include *mf* (mezzo-forte) and *mp* (mezzo-piano). A *8va* marking is present above the first violin staves in measure 68. The score is written in treble clef for violins and violas, and bass clef for cellos and double basses. The key signature has one sharp (F#) and the time signature is 4/4.

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Violin I (Vln. I.1, Vln. I.2, Vln. I.3, Vln. I.4):
Measures 69-72. Includes markings: ric. gliss., arco ord., 3, 5, 8va.

Violin II (Vln. II.1, Vln. II.2, Vln. II.3):
Measures 69-72. Includes markings: ric. gliss., arco ord., 3, ric. gliss., pizz., mf.

Viola (Vla I, Vla II):
Measures 69-72. Includes markings: arco ord., 3, 5.

Violoncello (Vlc I):
Measures 69-72. Includes markings: arco ord., poco a poco trem., mp, pizz., mf.



Musical score for Violins I, Violins II, Violas, and Violas I. The score is written for four staves in each section. The Violins I section (Vln. I.1-4) and Violins II section (Vln. II.1-3) are in treble clef. The Violas section (Vla I, Vla II, Vlc I) is in bass clef. The score includes various musical notations such as triplets, sixteenth notes, and dynamic markings like *mf* and *mp*. Performance instructions include *loco*, *arco*, and *pizz.*. The score is marked with measure numbers 71 and 72. A blue circular watermark is overlaid on the bottom left of the page.

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74 poco a poco sul tasto

Vln. I.1 *p* rit. *mp* *p* ord. *mp*

Vln. I.2 *p* rit. ric. arco ord. *mp*

Vln. I.3 *p* rit. ric. arco ord. *mp*

Vln. I.4 *p* rit. ric. arco ord. *mp*

Vln II.1 *p* rit. ric. arco ord. *mp*

Vln II.2 *p* rit. ric. arco ord. *mp*

Vln II.3 *p* rit. ric. arco ord. *mp*

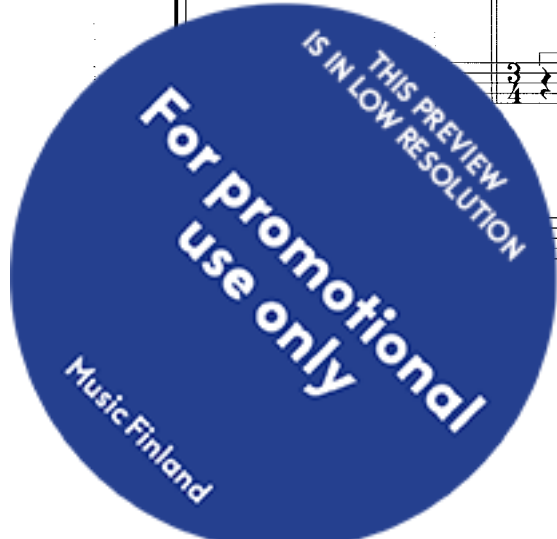
Vla I 74 poco a poco sul tasto *p* rit. *mp* *p* ord. *mp*

Vla II poco a poco sul tasto *p* rit. pizz. arco *mp*

Vcl I pizz. 3 rit. ric. arco ord. *mp*

arco *mp*

arco *mp*



Vln. I.1

Vln. I.2

Vln. I.3

Vln. I.4

Vln. II.1

Vln. II.2

Vln. II.3

Vla I

Vla II

Vlc I

79

pizz. *mf*

ric. *mp*

gliss. *mf*

subito *p*

pizz. *mf*

ric. *mp*

arco gliss. *mf*

subito *p*

pizz. *mf*

ric. *mp*

gliss. *mf*

subito *p*

poco a poco trem. *mf*

ric. *mf*

gliss. *mp*

subito *p*

poco a poco trem. *mf*

ric. gliss. *mp*

ric. *mf*

pizz. *f*

subito *p*

pizz. *mf*

ric. *mp*

pizz. *mf*

gliss. *f*

subito *p*

poco a poco trem. *mf*

gliss. *mf*

subito *p*

79

pizz. *mf*

pizz. *f*

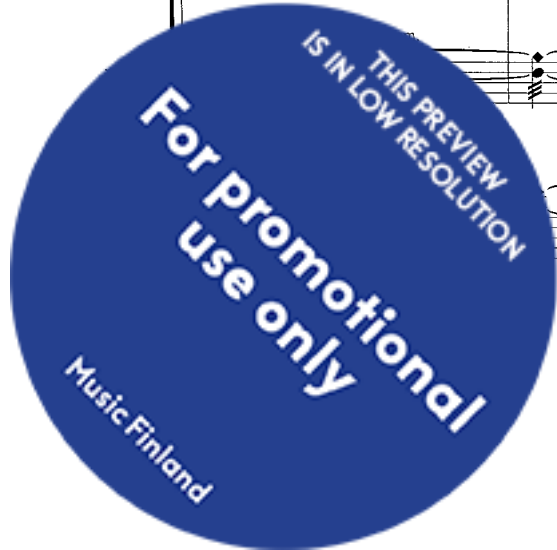
poco a poco trem. *mf*

ric. *mp*

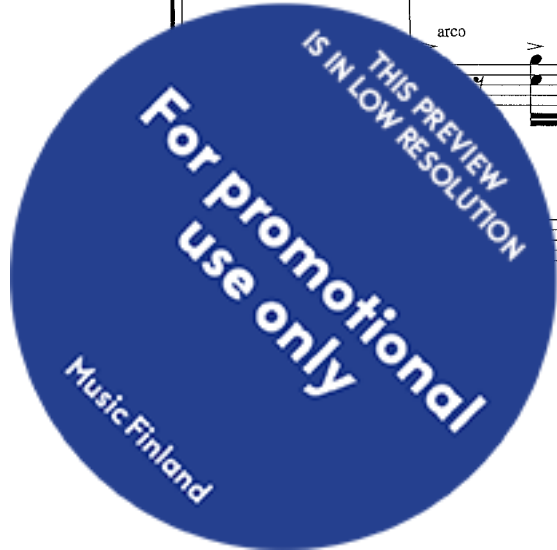
pizz. *f*

poco a poco trem. *mf*

pizz. *f*



Musical score for Violins I and II, Violas, and Violas I. The score is written for four Violin I parts (Vln. I.1-4), three Violin II parts (Vln. II.1-3), two Viola parts (Vla I, II), and one Viola I part (Vlc I). The music is in 3/4 time and features a complex melodic line with triplets and quintuplets. Dynamics include *mf* (mezzo-forte) and *mp* (mezzo-piano). Performance instructions include *gliss.* (glissando), *arco* (arco), and *pizz.* (pizzicato). The score is marked with measure numbers 84 and 85.



88

Vln. I.1 *mp accel.* *s.p.* *mf subito f* *mp*

Vln. I.2 *mp accel.* *s.p.* *mf subito f* *mfsub. f*

Vln. I.3 *mp accel.* *s.p.* *mf subito f* *mfsub. f*

Vln. I.4 *mp accel.* *mf* *f* *mfsub. f*

Vln. II.1 *mp accel.* *s.p.* *mf subito f* *mfsub. f*

Vln. II.2 *mp accel.* *s.p.* *mf subito f* *mfsub. f*

Vln. II.3 *mp accel.* *s.p.* *mf* *f* *mf*

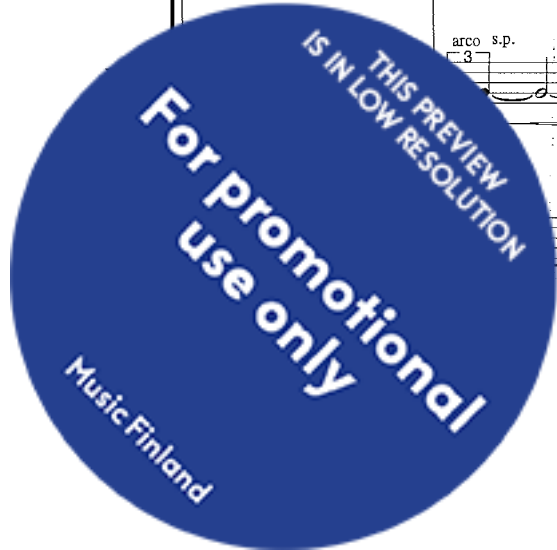
Vla I 88 *mp accel.* *s.p.* *mf* *f* *f*

Vla II *mp accel.* *s.p.* *mf* *f* *mf*

Vlc I *arco mp accel.* *s.p.* *mf* *f* *mf*

arco mp accel. *s.p.* *mf* *f* *mf*

f *mf*



94

Vln. I.1 *sub. p* *f ff* *p* *pp* *ord.* *p* *f*

Vln. I.2 *ff sub. p* *f ff* *p* *pp* *ord.* *p* *f*

Vln. I.3 *ff sub. p* *f ff* *p* *pp* *ord.* *p* *f*

Vln. I.4 *ff sub. p* *f ff* *p* *pp* *ord.* *p* *f sub. p*

Vln II.1 *ff sub. p* *f ff* *p* *ord.* *p* *f*

Vln II.2 *ff* *ff* *p* *ord.* *p* *f*

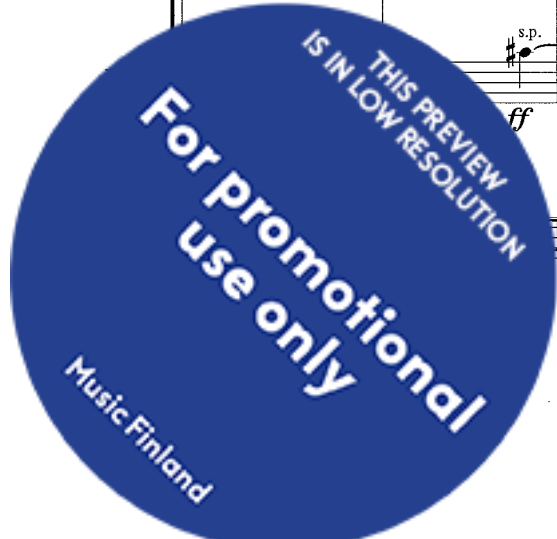
Vln II.3 *ff* *p* *ord.* *p* *f*

Vla I *ff sub. p* *f ff* *p* *ord.* *p* *f*

Vla II *ff* *p* *ord.* *p* *f*

Vlc I *ff* *p* *ord.* *p* *f*

s.t. *8va* *s.p.* *8va ric. gliss.* *ord.*



101

Vln. I.1 *stacc. e legg.*

Vln. I.2 *tr.* *stacc. e legg.*

Vln. I.3 *tr.* *stacc. e legg.*

Vln. I.4 *f* *tr.* *stacc. e legg.*

Vln II.1 *f* *stacc. e legg.* *subito mp*

Vln II.2 *f* *stacc. e legg.* *subito mp*

Vln II.3 *f* *stacc. e legg.*

Vla I *f*

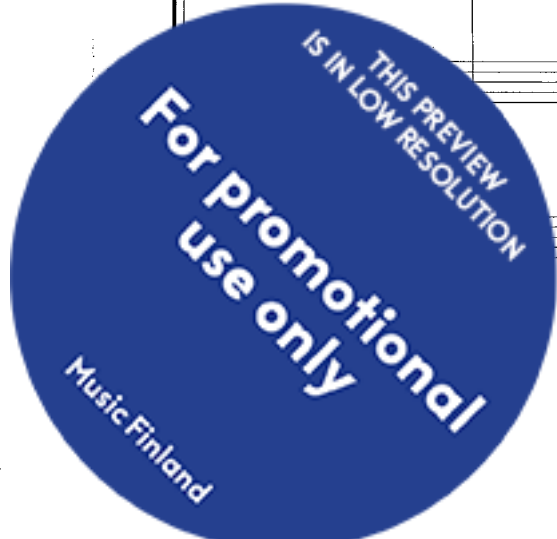
Vla II *f* *subito mp*

Vlc I *tr.*

104



Musical score for Violins I, Violins II, Violas, and Violas I. The score is in 3/4 time and features dynamic markings such as *mp*, *mf*, *p*, and *f*. The Violins I section (Vln. I.1-4) includes a triplet of eighth notes in the first measure of the system. The Violins II section (Vln. II.1-3) features a melodic line with a triplet of eighth notes in the first measure. The Viola section (Vla I and II) has a similar melodic line. The Violas I section (Vlc I) includes a pizzicato section in the final measure of the system. The score is marked with a rehearsal mark 104 at the beginning of the system.



108 (8va) *mp*

Vln. I.1

Vln. I.2

Vln. I.3

Vln. I.4

stacc. e legg. *mp*

Vln. II.1

stacc. e legg. *mp*

Vln. II.2

stacc. e legg. *mp*

Vln. II.3

108 stacc. e legg. *mp* pizz. *mf*

Vla I

stacc. e legg. *mp* pizz. *mf*

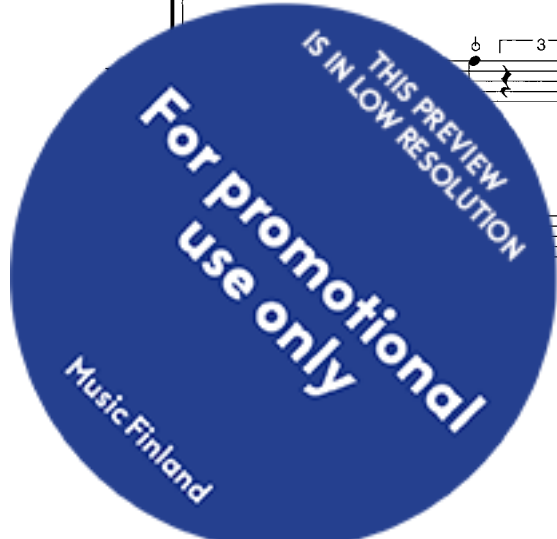
Vla II

3 *mf*

Vlc I

pizz. *mf*

3



stacc. e legg.

Vln. I.1 *mf* *mp*

Vln. I.2 *mf* *mp*

Vln. I.3 *mf* *mp*

Vln. I.4 *mf* *mp*

Vln II.1 *mf* pizz.

Vln II.2 *mf* pizz.

Vln II.3 *mf* pizz.

Vla I 111 *mf* *mp*

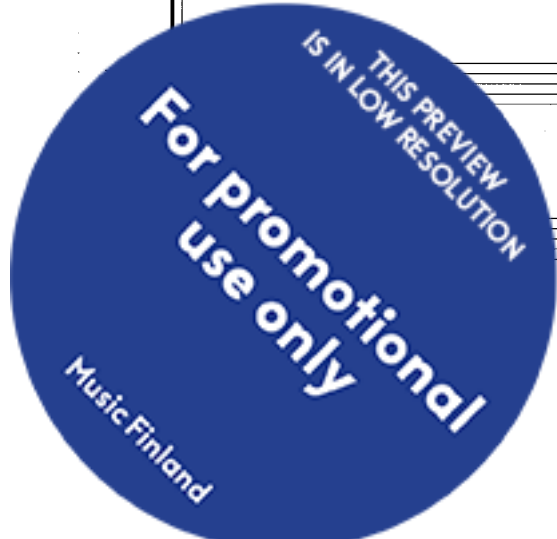
Vla II *mf* *mp*

Vlc I *mp* *mp*

stacc. e legg. arco

stacc. e legg. arco

111



114

Vln. I.1 punta d'arco gliss. mf

Vln. I.2 punta d'arco gliss. mf

Vln. I.3 punta d'arco gliss. mf

Vln. I.4 sul g punta d'arco gliss. mf

Vln II.1 arco *tr* p mf mp f pizz.

Vln II.2 arco *tr* p mf mp f pizz.

Vln II.3 arco *tr* p mf mp f pizz.

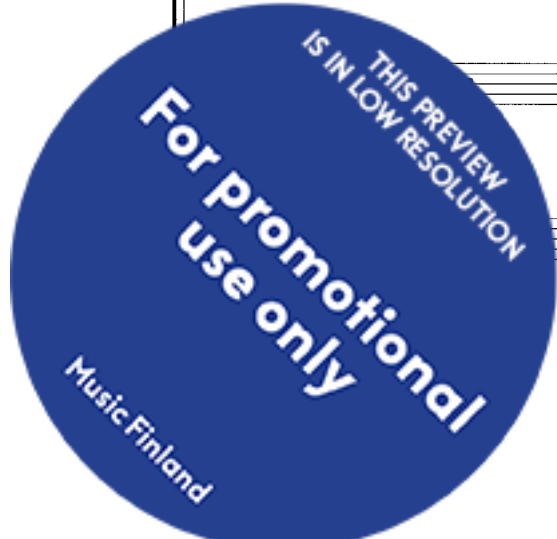
Vla I 114 *Sua* *tr* p mf p f pizz. 3

Vla II *Sua* *tr* p mf p f pizz. 3

Vlc I *tr* p f pizz. 3

tr p f pizz. 3

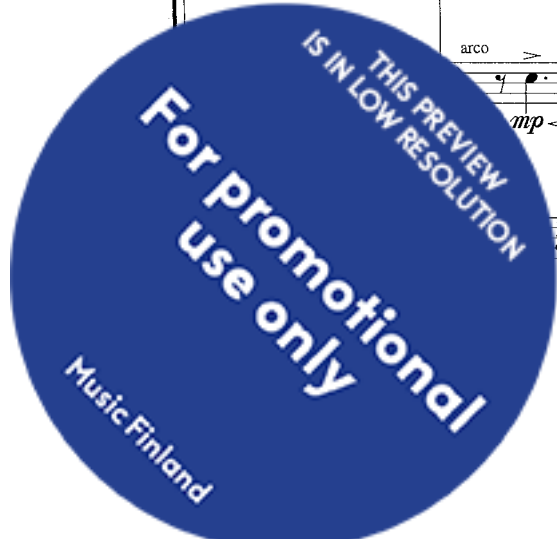
arco *tr* p f pizz. 3



The image displays a page of musical notation for a string ensemble, specifically measures 119 through 123. The notation is arranged in a system with five staves:

- Vln. I.1 - Vln. I.4:** Four staves for Violin I. Each staff begins with measure 119, marked with a 'gliss.' (glissando) over a dotted quarter note. The notes are tied across measures, with glissandos also indicated over subsequent notes in measures 120, 121, and 122.
- Vln. II.1 - Vln. II.3:** Three staves for Violin II. These staves start in measure 120. They feature a mix of eighth and sixteenth notes, with dynamic markings of *mf* and *f*. Triplets of eighth notes are present in measures 121 and 122.
- Vla I - Vla II:** Two staves for Viola. These staves start in measure 120. They include dynamic markings of *mf*, *mp*, and *f*, along with triplet markings.
- Vlc I:** One staff for Viola/Celli. This staff starts in measure 120 and includes dynamic markings of *mp* and *mf*, with triplet markings.

Throughout the score, dynamic markings such as *mf* (mezzo-forte), *f* (forte), and *mp* (mezzo-piano) are used to indicate volume. Performance instructions like *arco* (arco) and *gliss.* (glissando) are also present.



♩ = 52

Vln. I.1

124 gliss. non vibr. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln. I.2

gliss. non vibr. gliss. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln. I.3

gliss. non vibr. gliss. 3 poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln. I.4

gliss. non vibr. gliss. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln II.1

gliss. non vibr. 3 gliss. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln II.2

gliss. non vibr. 3 gliss. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vln II.3

gliss. non vibr. 3 gliss. poco a poco molto vibr. gliss.

p poco a poco cresc. rit. *ff*

Vla I

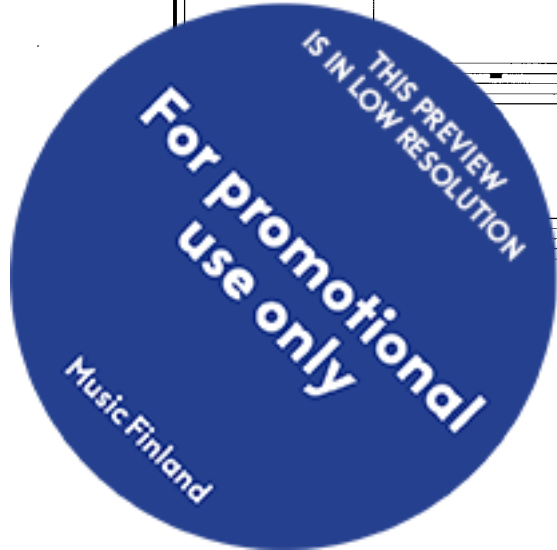
124 rit. *ff*

Vla II

rit. *ff*

Vlc I

rit. *ff*



131

Vln. I.1 *mp* rit. *pp* ric. gliss. niente

Vln. I.2 *mp* rit. *pp* ric. gliss. niente

Vln. I.3 *mp* rit. *pp* ric. gliss. niente

Vln. I.4 *mp* rit. *pp* ric. gliss. niente

Vln II.1 *mp* pizz. *p* rit.

Vln II.2 *mp* rit.

Vln II.3 *mp* rit.

Vla I 131 *mp* rit. pizz. *pp*

Vla II *mp*

Vlc I *mp* rit. pizz. *p*

mp rit.

mp rit.

