Bass Lines and Harmonic Structure

The nature of the lowest voice and its relationship to harmonic structure

Three Fundamental Classes

Three Fundamental Classes

- Tonic (T) class

Three Fundamental Classes

- Tonic (T) class
- Intermediate (int) or “predominant” class

Three Fundamental Classes

- Tonic (T) class
- Intermediate (int) or “predominant” class
- Dominant (D) class

Tonic (T) Class

Tonic (T) Class

I - I6

Tonic (T) Class

I - I6

Two chords, but just a prolongation of one tonic idea

Tonic (T) Class

- I - I6
  - Two chords, but just a prolongation of one tonic idea
- I - vii6 - I6

Tonic (T) Class

- I - I6
  - Two chords, but just a prolongation of one tonic idea
- I - vii6 - I6
  - Adds a passing chord between I and I6, connecting the root and third of the tonic

Intermediate (int) Class

Intermediate (int) Class

- IV - ii6 - V

Intermediate (int) Class

- IV - ii6 - V
  - The two intermediate chords (descending root) prepare the dominant

Intermediate (int) Class

- IV - ii6 - V
  - The two intermediate chords (descending root) prepare the dominant
- I - vi - IV

Intermediate (int) Class

- IV - ii6 - V
  - The two intermediate chords (descending root) prepare the dominant
- I - vi - IV
  - The vi acts both as a prolongation of T and a bridge into the int chord as well

Chord and *Harmony*

Chord and *Harmony*

- Schenkerian analysis makes a distinction between *chord* and *harmony*
- The *chord* is the actual labelled harmonic event

Chord and *Harmony*

- Schenkerian analysis makes a distinction between *chord* and *harmony*
- The *chord* is the actual labelled harmonic event
- The *harmony* is the overall function of that harmonic event, viewed either singly but more often together with other chords as a larger unit

Mozart: Sonata K. 545, II

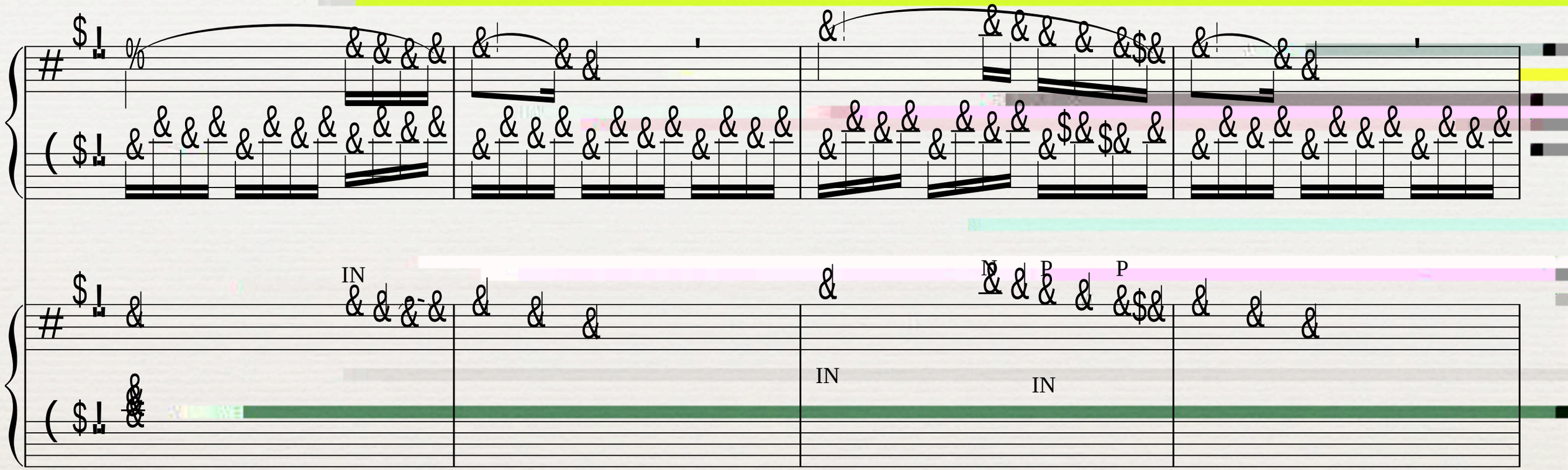
- The V43 on the third beat provides harmonic variety, but it also serves to *prolong*

Mozart: Sonata K. 545, II

Mozart: Sonata K. 545, II

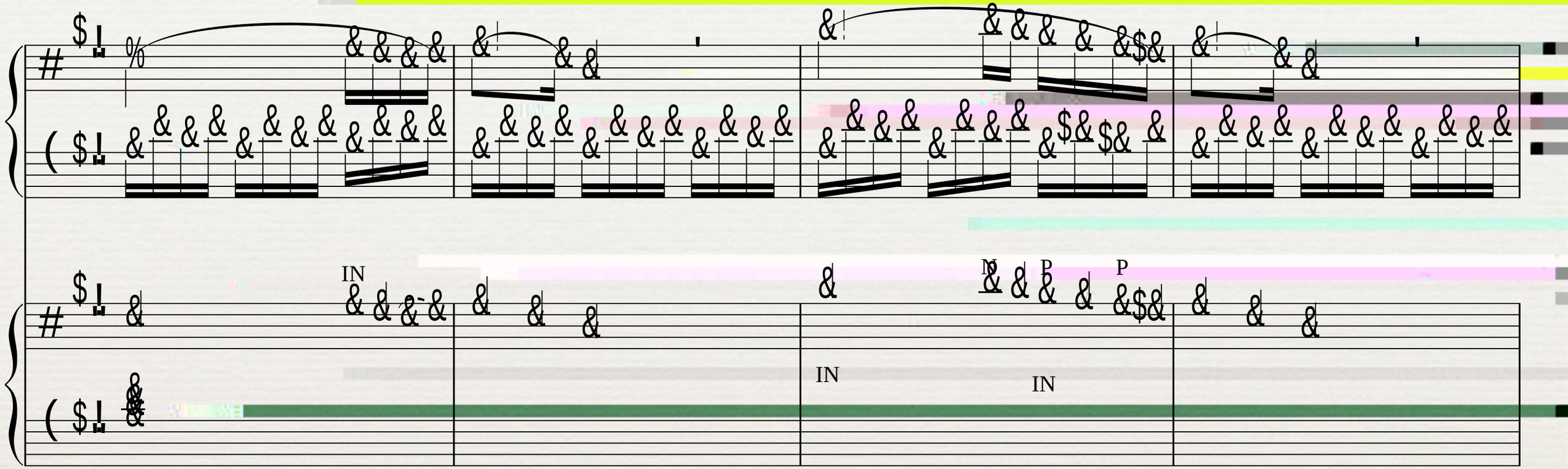
- The 6-4 chord in bar three is a *neighboring* 6-4, an embellishment which serves to prolong the tonic

Mozart: Sonata K. 545, II



I

Mozart: Sonata K. 545, II



I

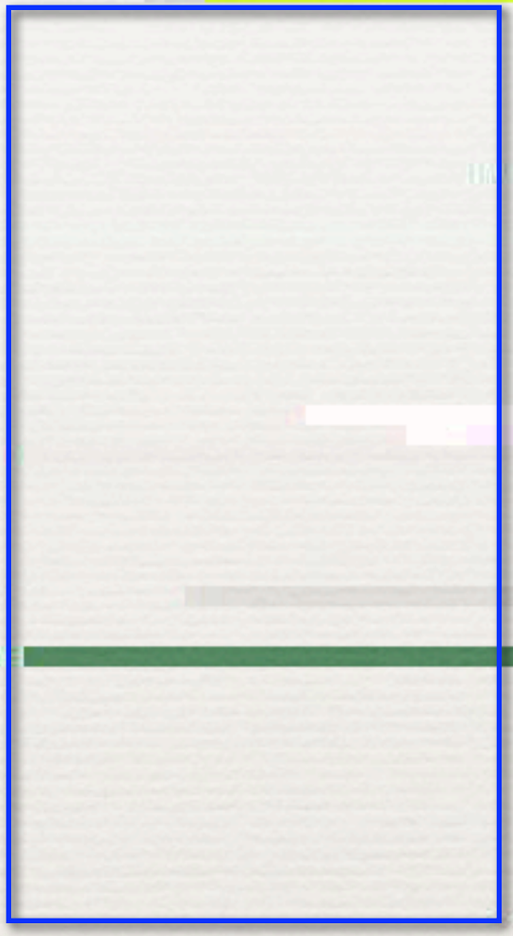
The reduced analysis here shows the neighboring functions of the V43, IV64, and common-tone diminished chords

Mozart: Sonata K. 545, II

Mozart: Sonata K. 545, II

- Bars 5-6 display a continuation of the tonic prolongation

Mozart: Sonata K. 545, II



- Bars 5-6 display a continuation of the tonic prolongation
- The neighboring V43 is repeated in bar 5

Mozart: Sonata K. 545, II

- Bars 5-6 display a continuation of the tonic prolongation
- The neighboring V43 is repeated in bar 5
- In bar 6, a motion from I through vi moves to I6—this is essentially the same motion as if moving upwards from I to I6.

Mozart: Sonata K. 545, II

Mozart: Sonata K. 545, II

- Bar 7 is *intermediate* harmony—a “predominant” function leading us to the

Mozart: Sonata K. 545, II

- Bar 7 is *intermediate* harmony—a “predominant” function leading us to the
- half-cadence in bar 8 and the *dominant* harmony

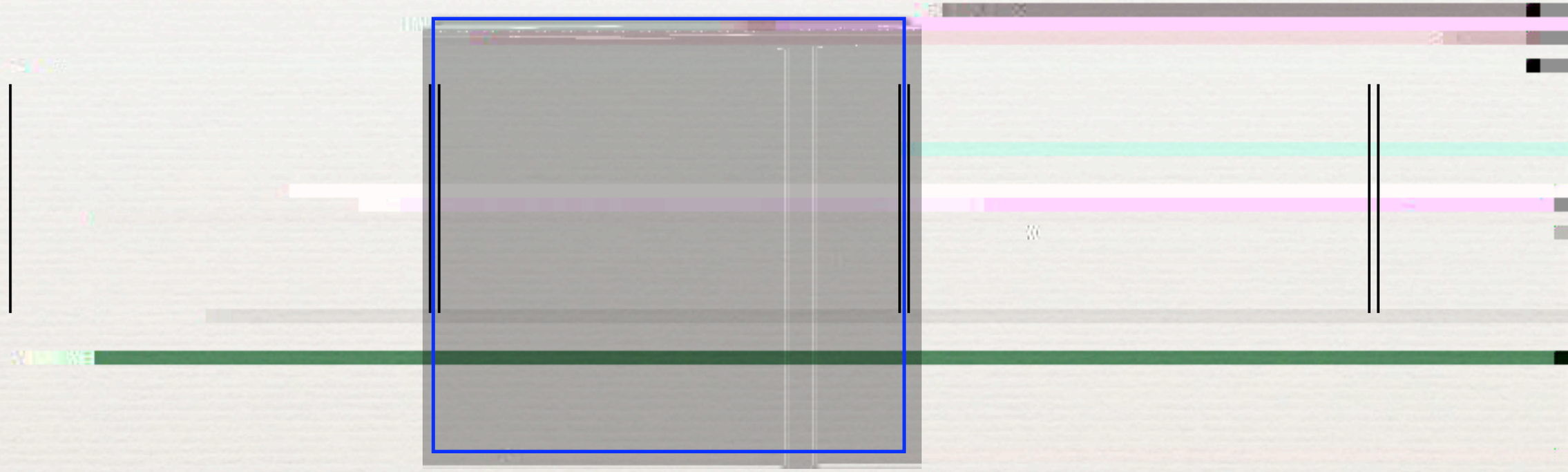
Mozart: Sonata K. 545, II

A Reminder

A Reminder

- The cadential six-four is really an intensified dominant

A Reminder

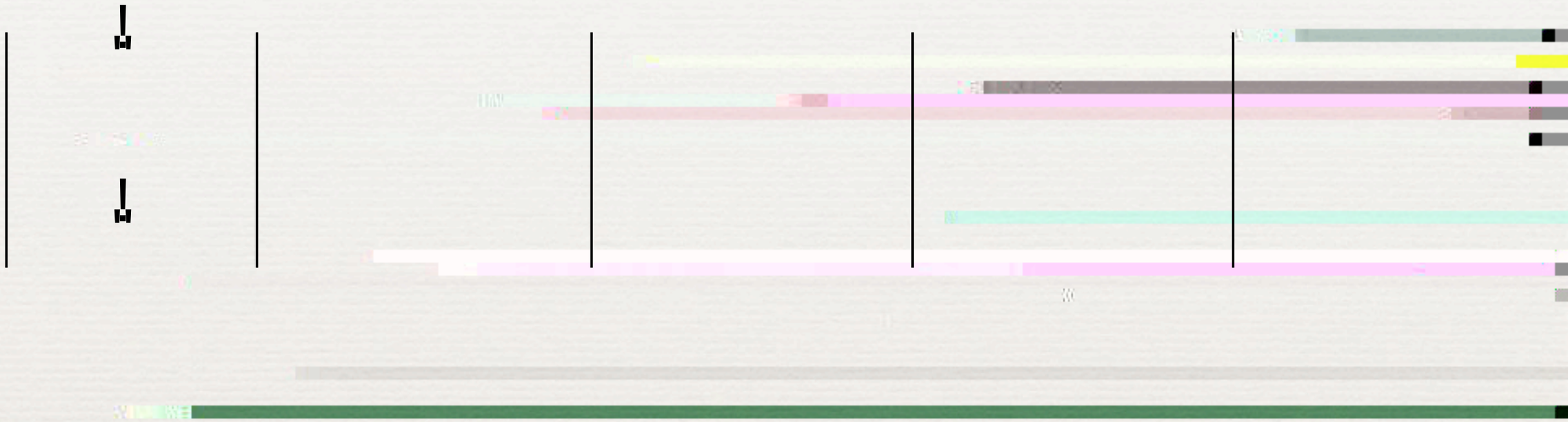


- The cadential six-four is really an intensified dominant
- Therefore, the notation which analyzes it as a dominant with non-chord tones resolving to chord tones is more descriptive than

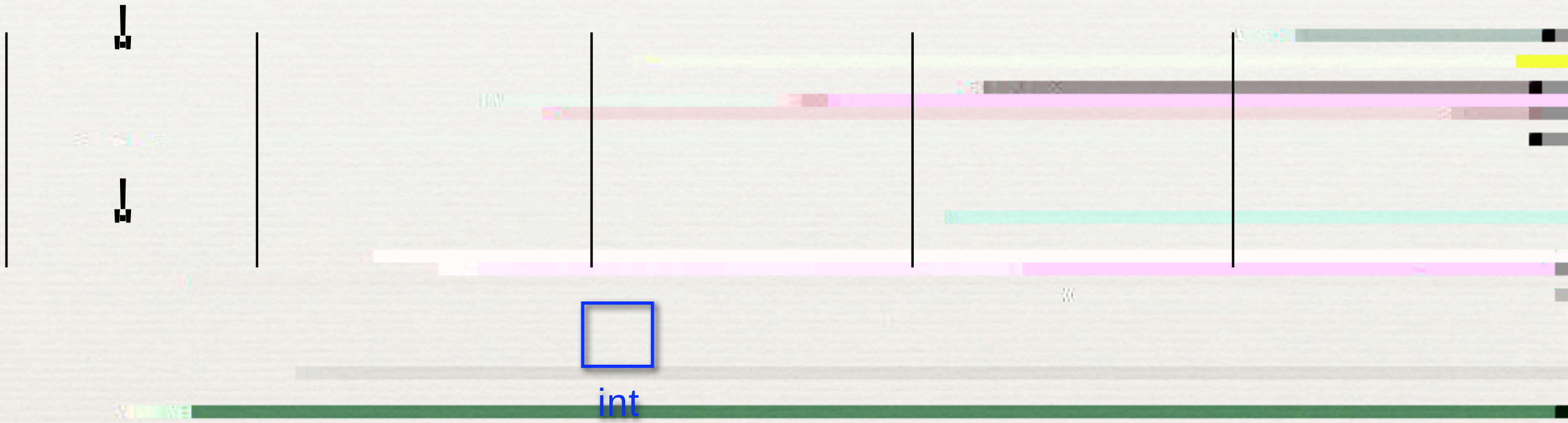
A Reminder

- The cadential six-four is really an intensified dominant
- Therefore, the notation which analyzes it as a dominant with non-chord tones resolving to chord tones is more descriptive than
- the more logically-correct notation

Bach: “Wach’ auf, mein Herz”

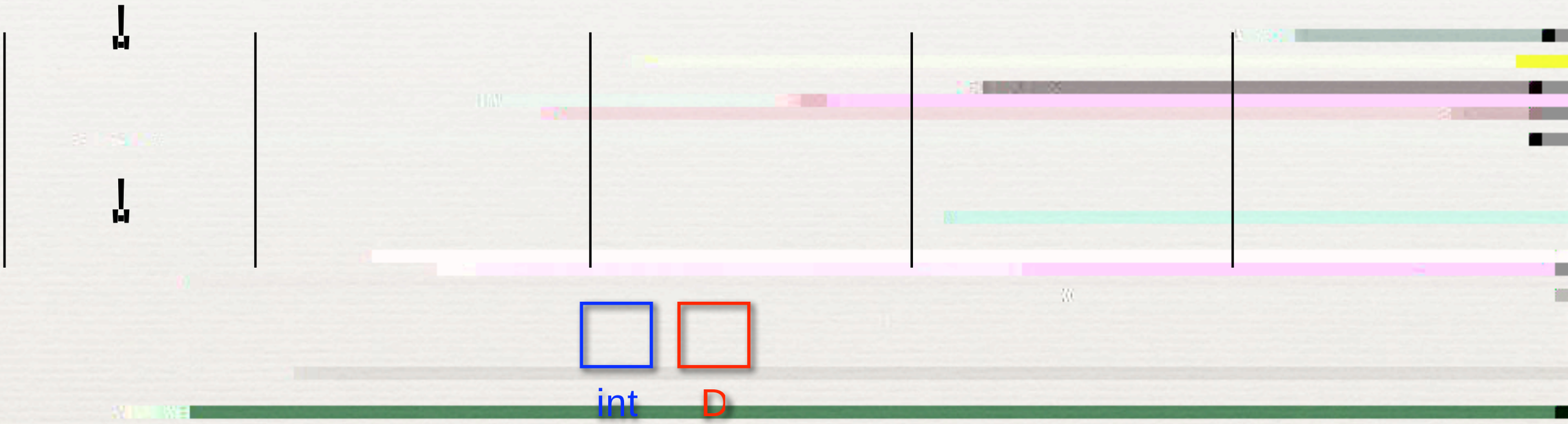


Bach: “Wach’ auf, mein Herz”



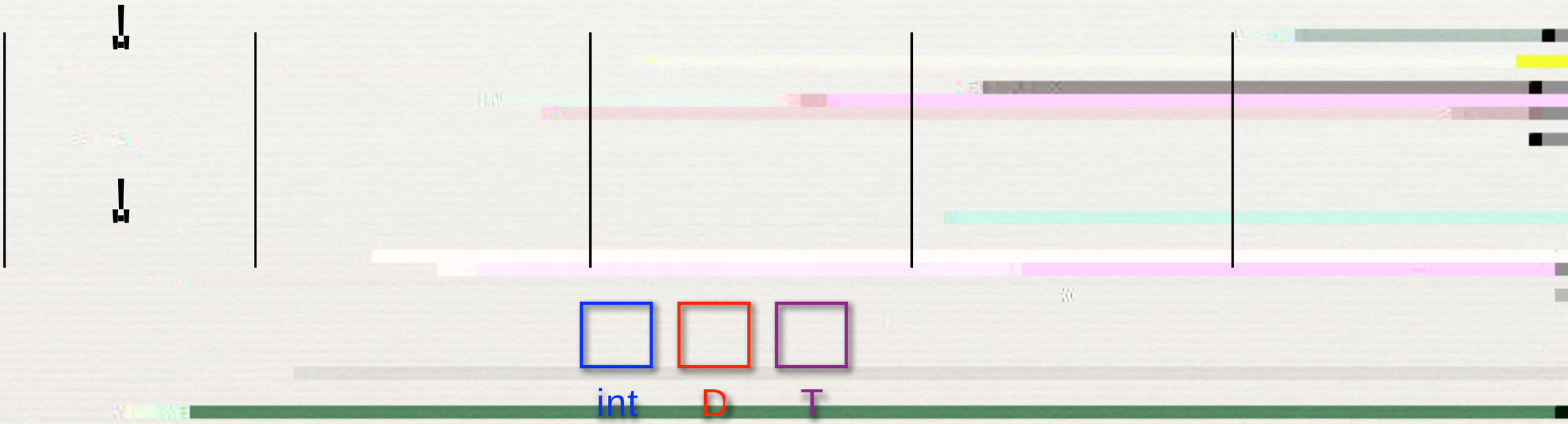
- At first glance, one might think that the IV in bar 2 is the *intermediate*, or predominant, chord

Bach: “Wach’ auf, mein Herz”



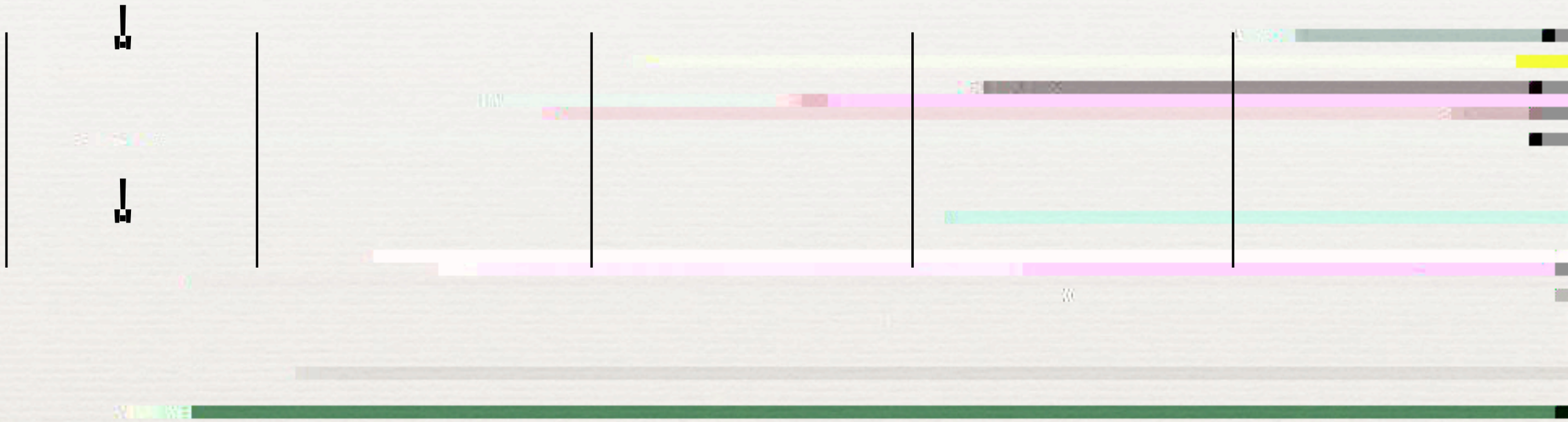
- At first glance, one might think that the IV in bar 2 is the *intermediate*, or predominant, chord
  - It is followed by a dominant

Bach: “Wach’ auf, mein Herz”

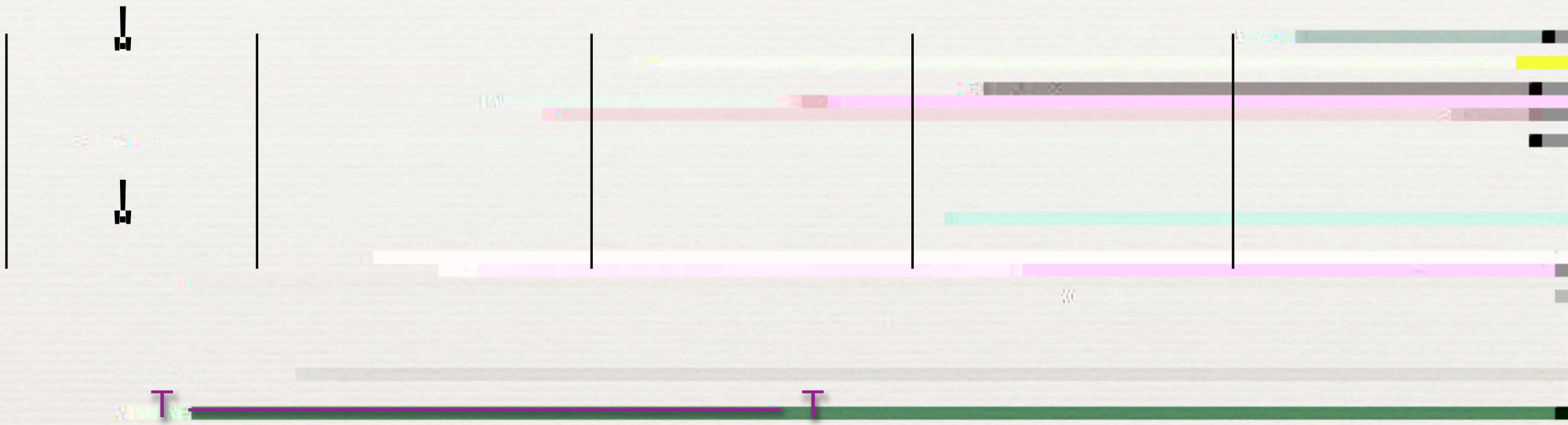


- At first glance, one might think that the IV in bar 2 is the *intermediate*, or predominant, chord
  - It is followed by a dominant.
  - The dominant then resolves to a tonic.

Bach: “Wach’ auf, mein Herz”

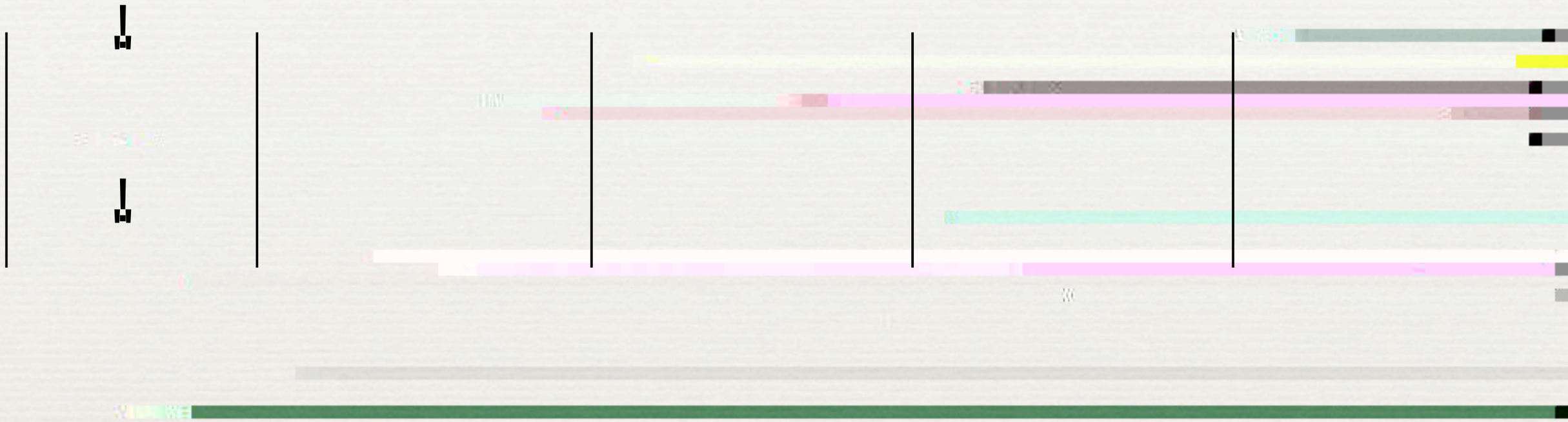


Bach: “Wach’ auf, mein Herz”

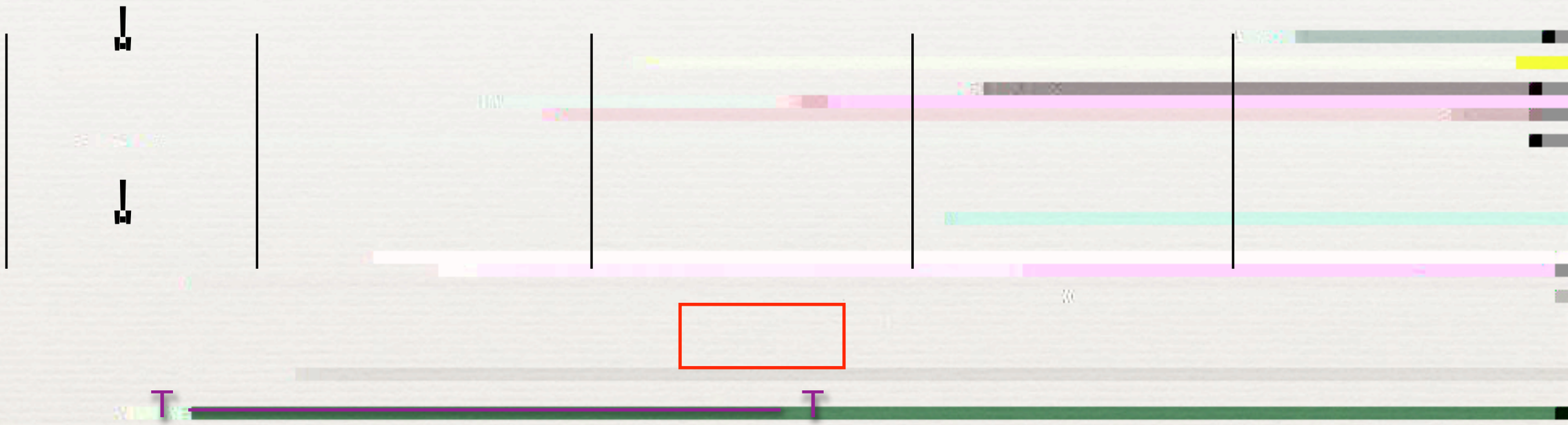


- However, the opening tonic is actually *prolonged* over two measures, extending from the upbeat to the third beat of measure 2

Bach: “Wach’ auf, mein Herz”

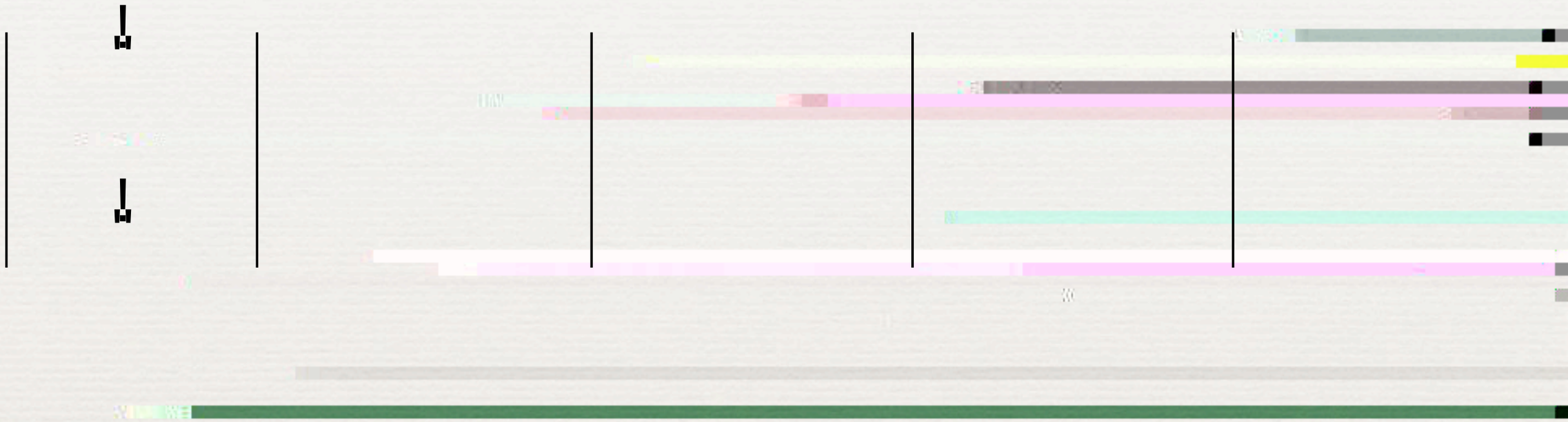


Bach: “Wach’ auf, mein Herz”

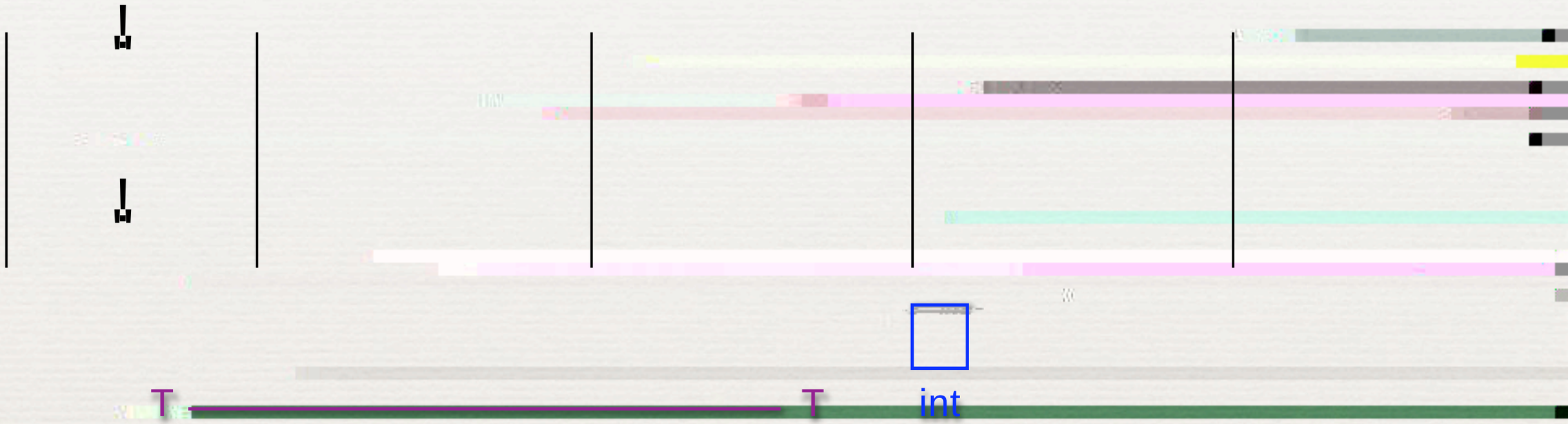


- What appears at first to be a cadence in bar 2 is an *evaded* cadence (or an *implied*) cadence, a technique used specifically to extend ideas—i.e., it’s a prolongation technique.

Bach: “Wach’ auf, mein Herz”

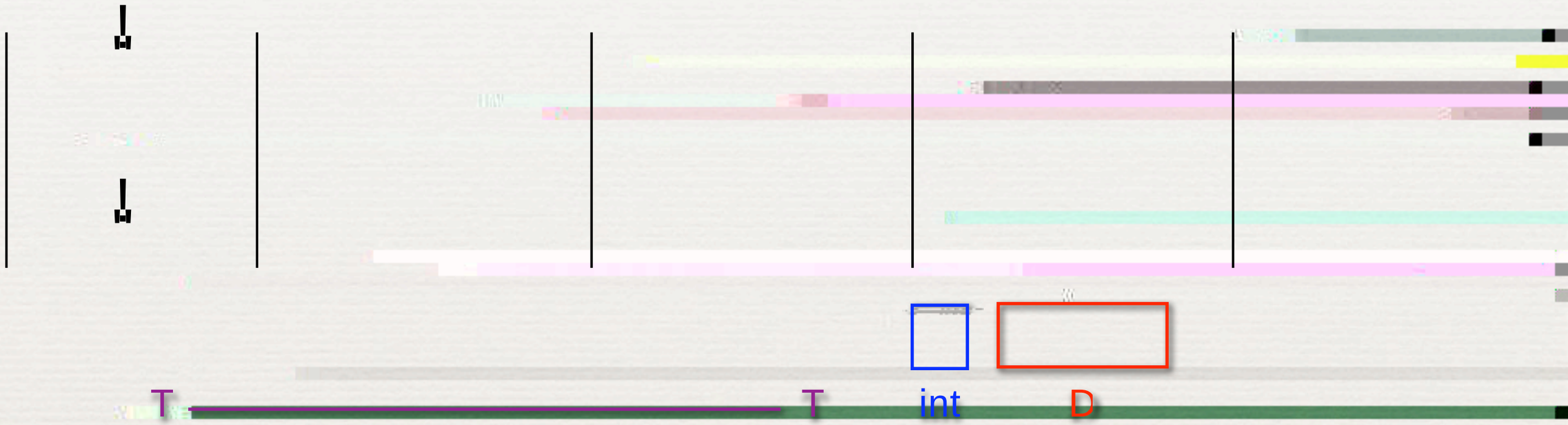


Bach: “Wach’ auf, mein Herz”



- Therefore, the intermediate chord is found on the downbeat of bar 3

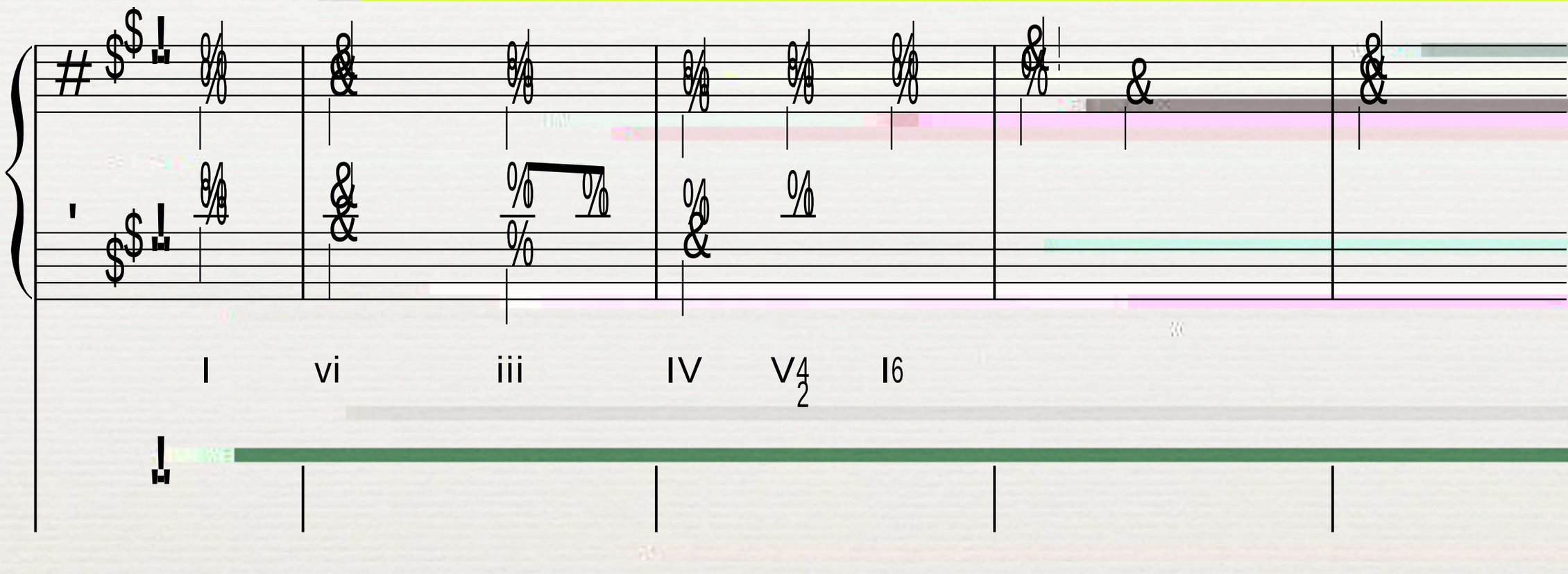
Bach: “Wach’ auf, mein Herz”



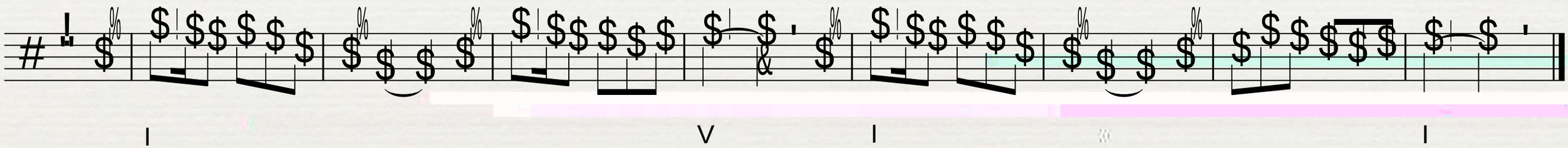
- Therefore, the intermediate chord is found on the downbeat of bar 3
  - It leads to a prolonged dominant on beat 2

Bach: “Wach’ auf, mein Herz”

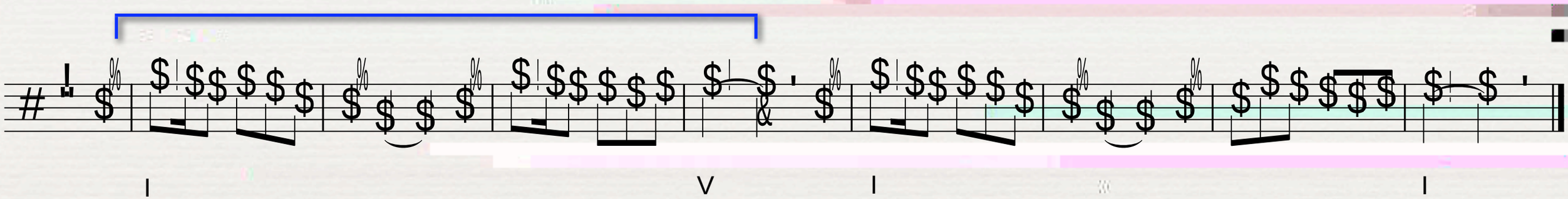
Bach: “Wach’ auf, mein Herz”



Dominant Class

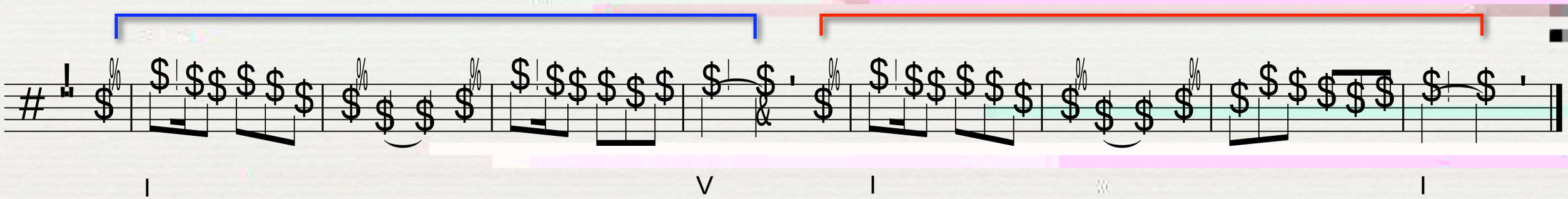


Dominant Class



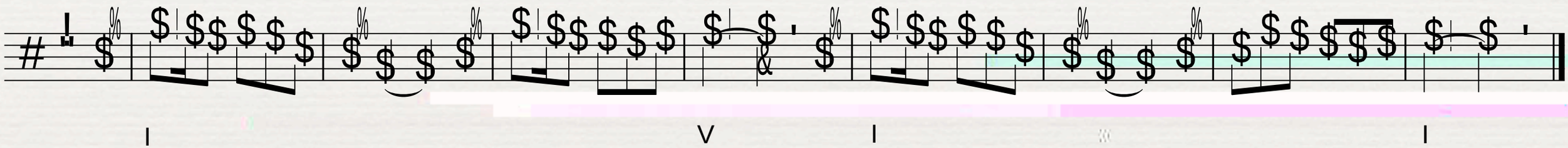
- The half-cadence at the end of the antecedent requires a resolution

Dominant Class

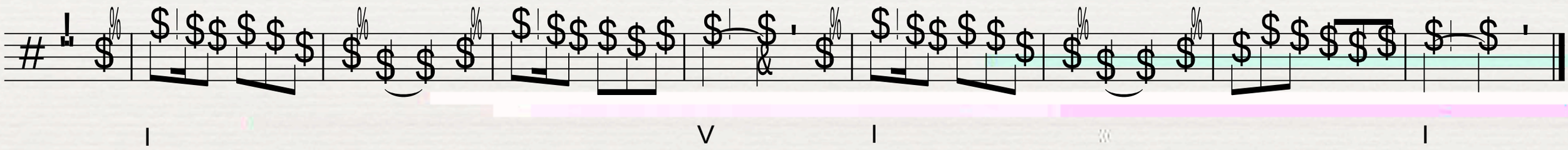


- The half-cadence at the end of the antecedent requires a resolution
- However, the beginning of the consequent doesn’t provide the resolution

Dominant Class

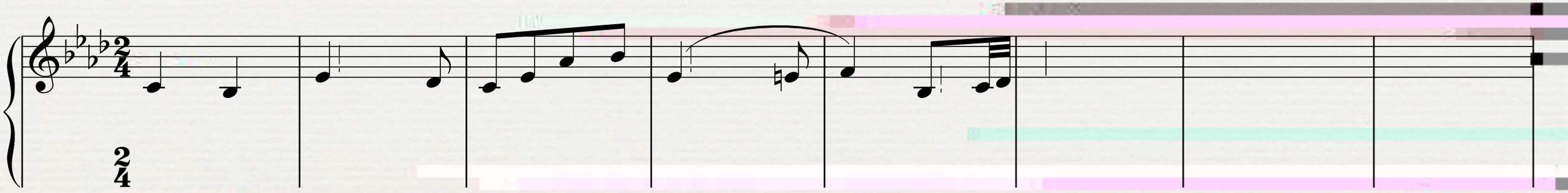


Dominant Class

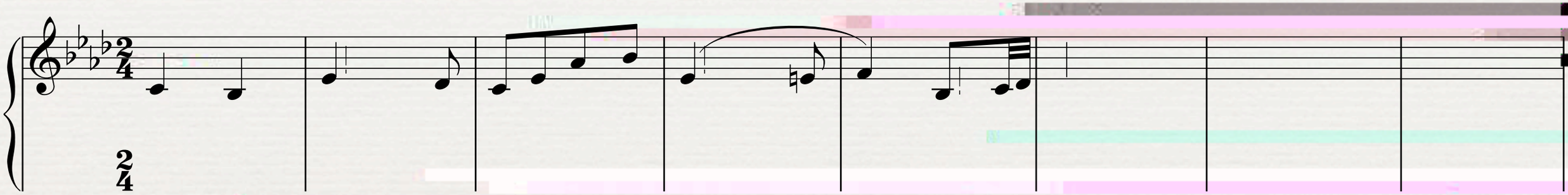


We tend to hear the end of the antecedent, and the beginning of the consequent, as an *interruption* before the dominant finally achieves full closure

Beethoven: Sonata Op. 13, II

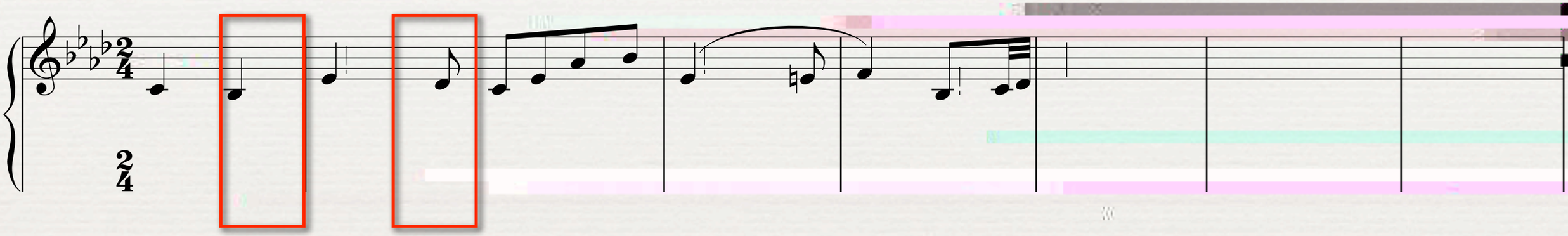


Beethoven: Sonata Op. 13, II



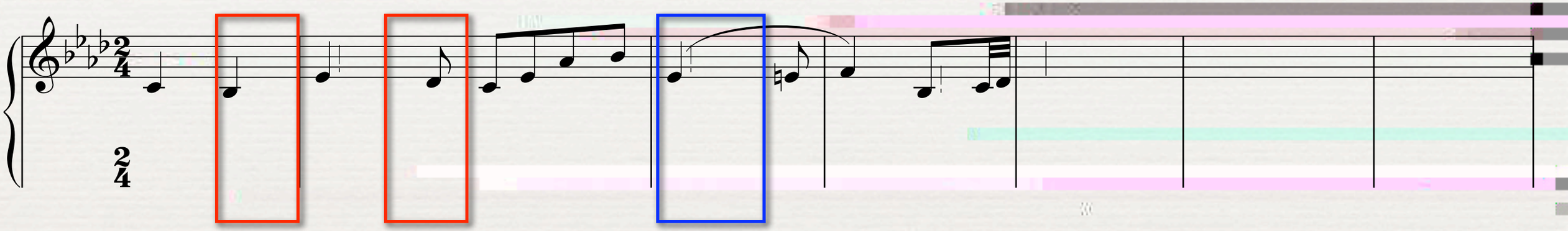
- Different uses of dominant chords

Beethoven: Sonata Op. 13, II



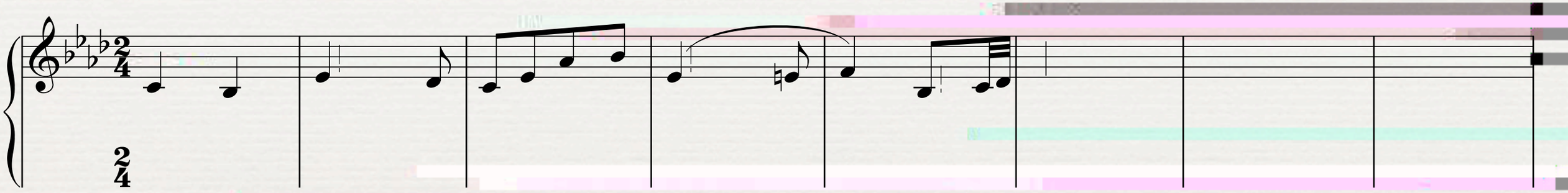
- Different uses of dominant chords
  - Dominants in bars 1 and 2 act as incomplete neighbors

Beethoven: Sonata Op. 13, II

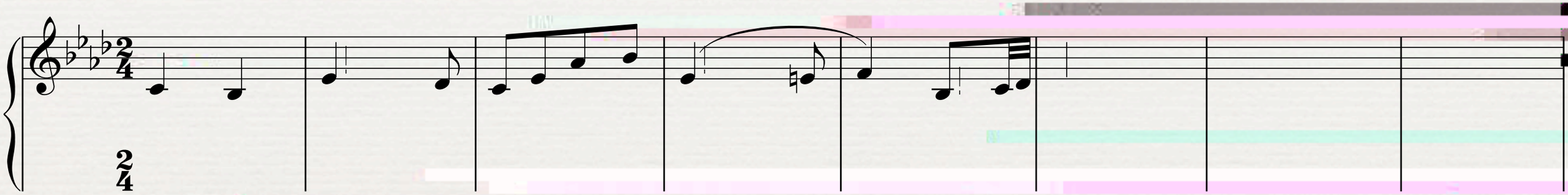


- Different uses of dominant chords
  - Dominants in bars 1 and 2 act as incomplete neighbors
  - In bar 4, the V is in root position and articulates a half cadence

Beethoven: Sonata Op. 13, II

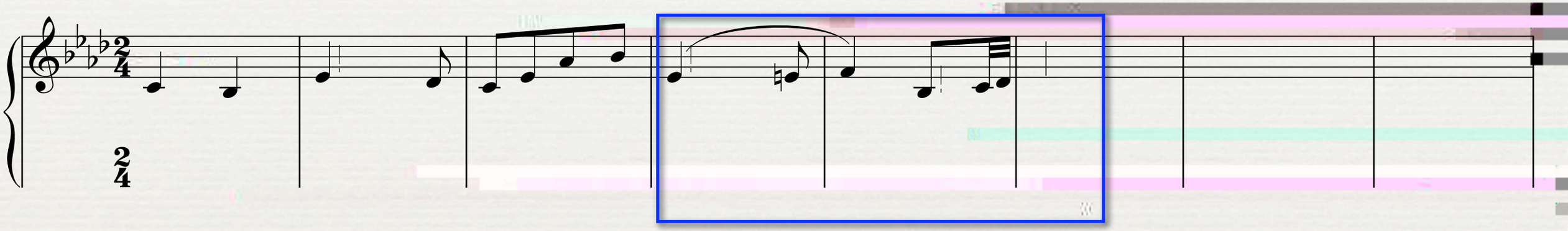


Beethoven: Sonata Op. 13, II



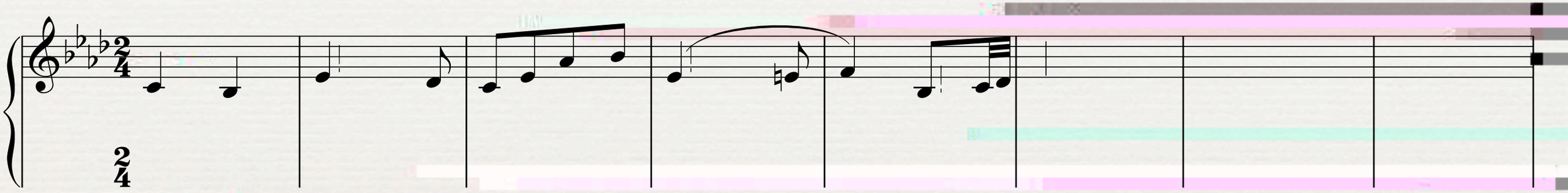
- Different uses of dominant chords

Beethoven: Sonata Op. 13, II

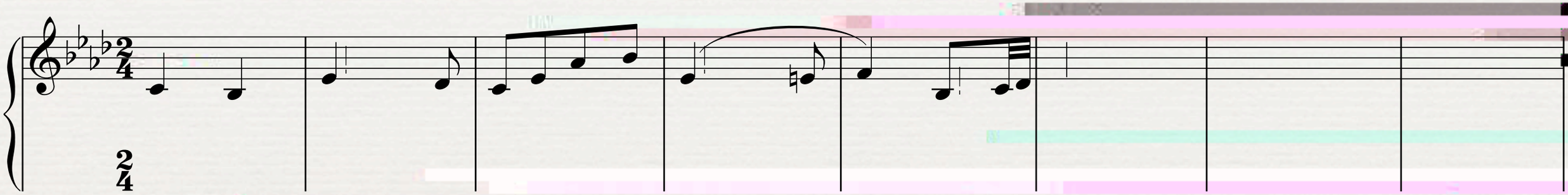


- Different uses of dominant chords
  - The V in bar 4 resolves through V42 to I6—therefore the dominant persists through bar 5 as well

Beethoven: Sonata Op. 13, II

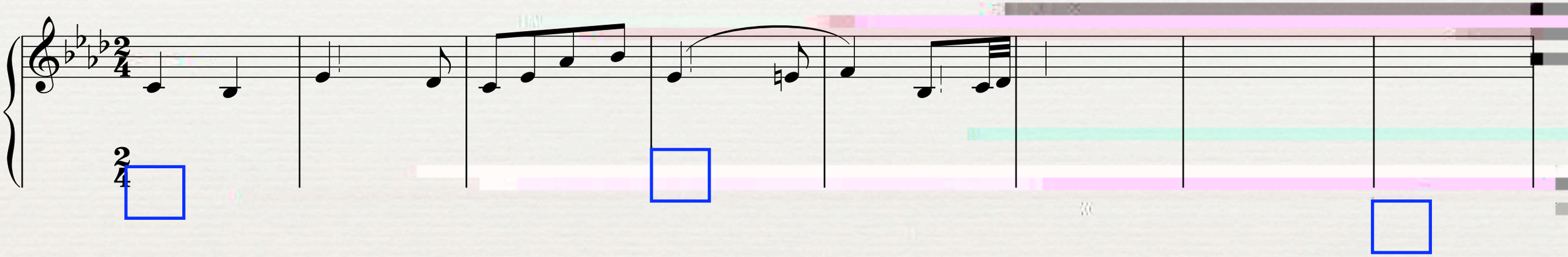


Beethoven: Sonata Op. 13, II



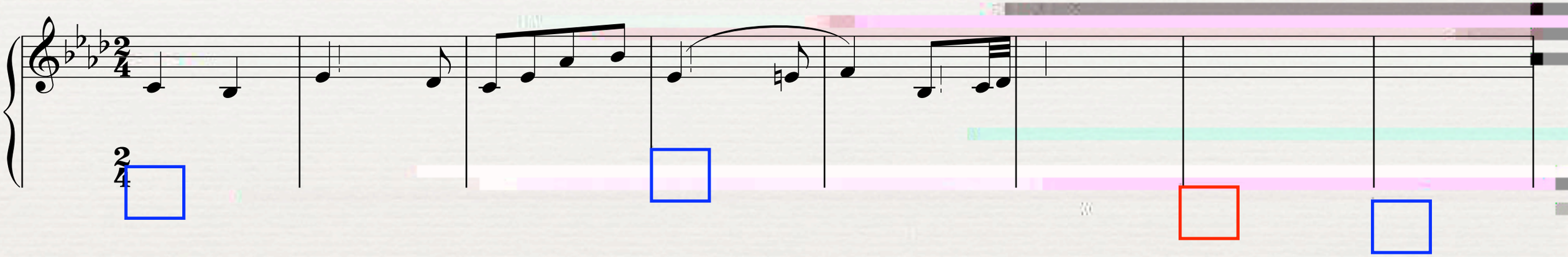
- Different uses of dominant chords

Beethoven: Sonata Op. 13, II



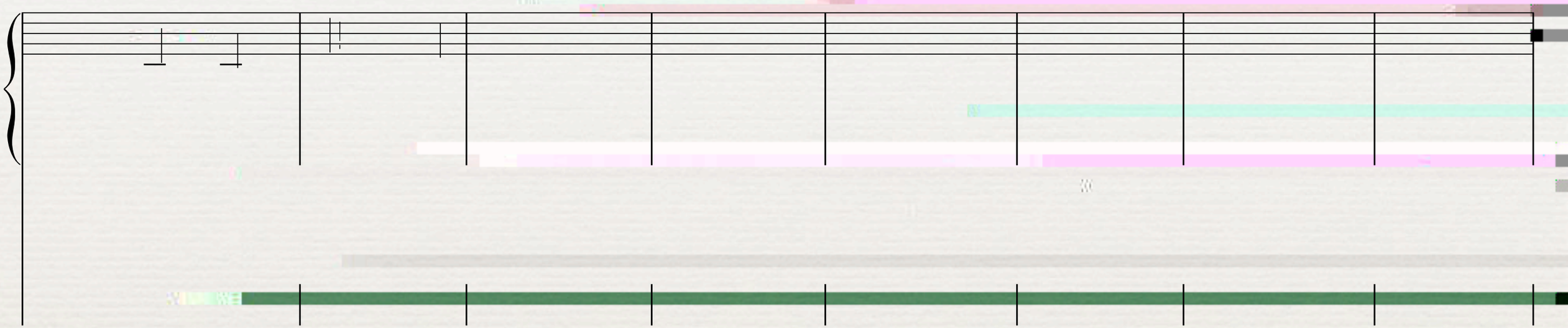
- Different uses of dominant chords
  - The V in bar 4 also acts so as to *divide* an overall bass motion from I to I

Beethoven: Sonata Op. 13, II

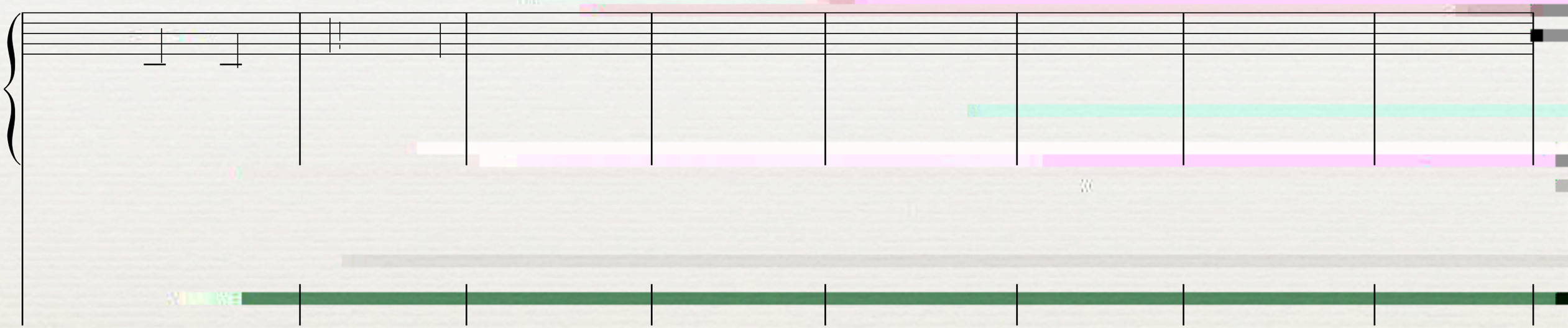


- Different uses of dominant chords
  - The V in bar 4 also acts so as to *divide* an overall bass motion from I to I
  - And also acts to prepare the long-term motion to the ii in bar 7

Beethoven: Sonata Op. 13, II

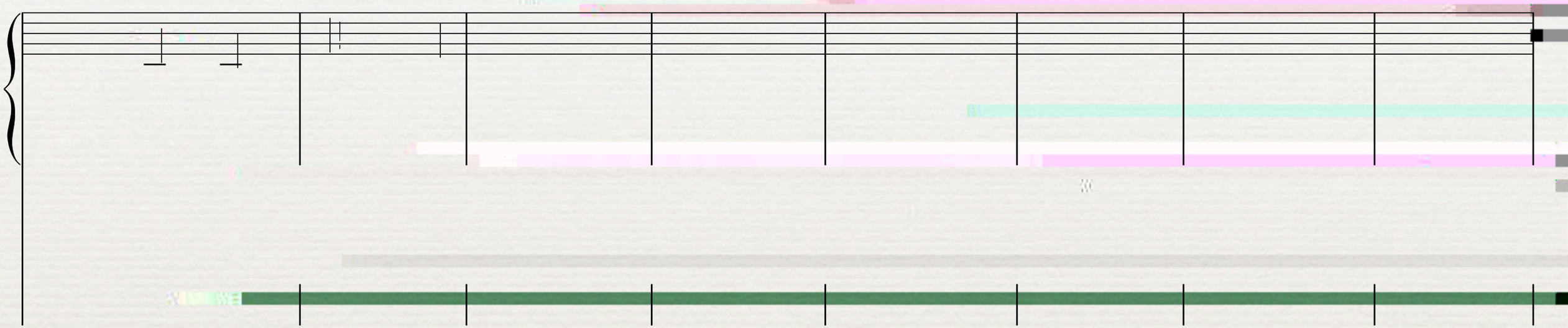


Beethoven: Sonata Op. 13, II



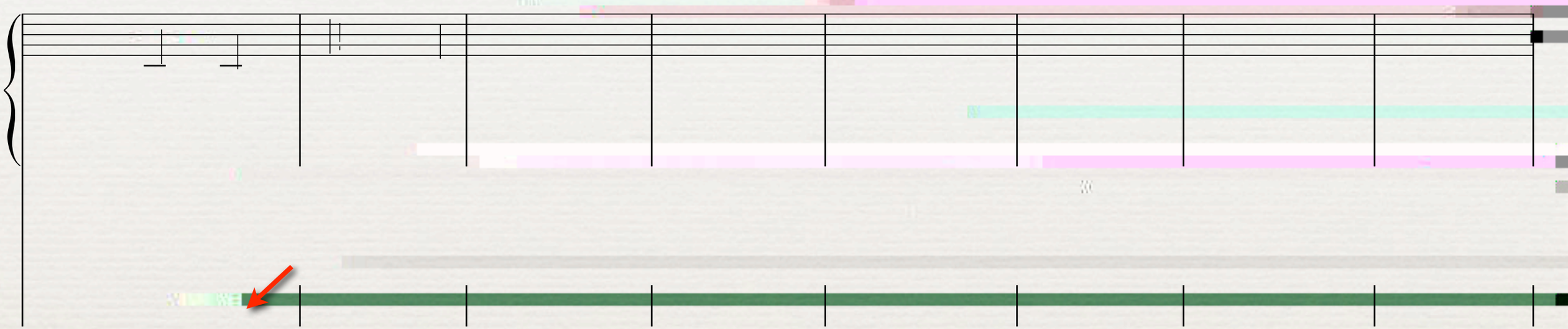
- A “dividing dominant” is indicated in the analysis with a bracketed [V]

Beethoven: Sonata Op. 13, II



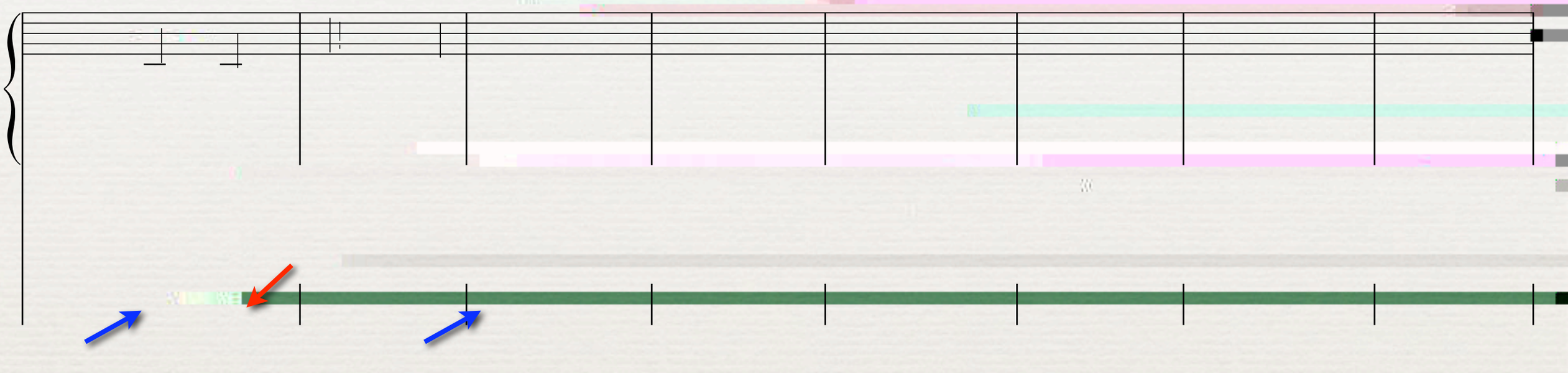
- A “dividing dominant” is indicated in the analysis with a bracketed [V]
- Note important features:

Beethoven: Sonata Op. 13, II



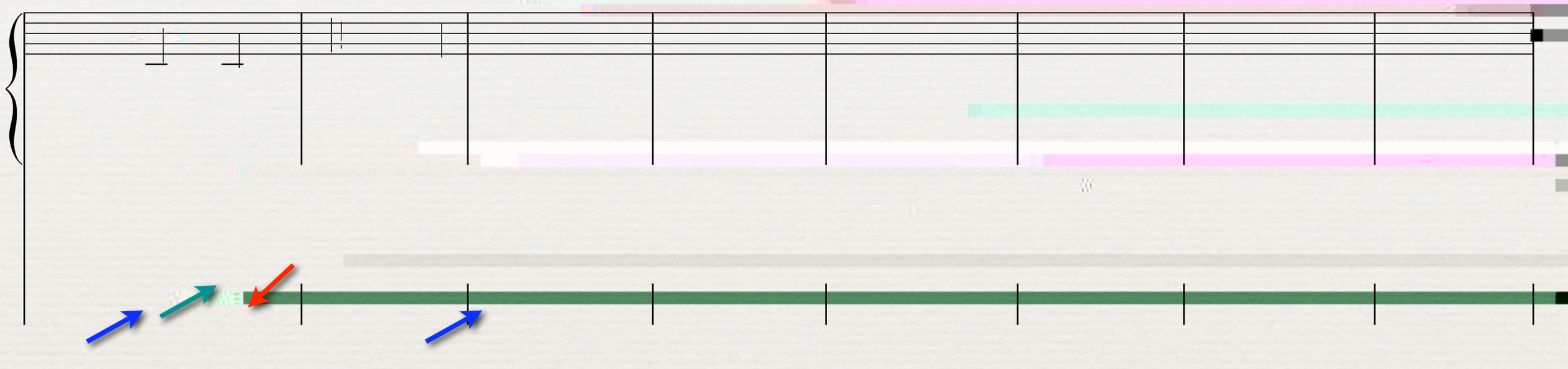
- A “dividing dominant” is indicated in the analysis with a bracketed [V]
- Note important features:
  - The dotted slur (indicated a prolongation)

Beethoven: Sonata Op. 13, II



- A “dividing dominant” is indicated in the analysis with a bracketed [V]
- Note important features:
  - The dotted slur (indicated a prolongation)
  - Stems indicating the primary bass line notes

Beethoven: Sonata Op. 13, II

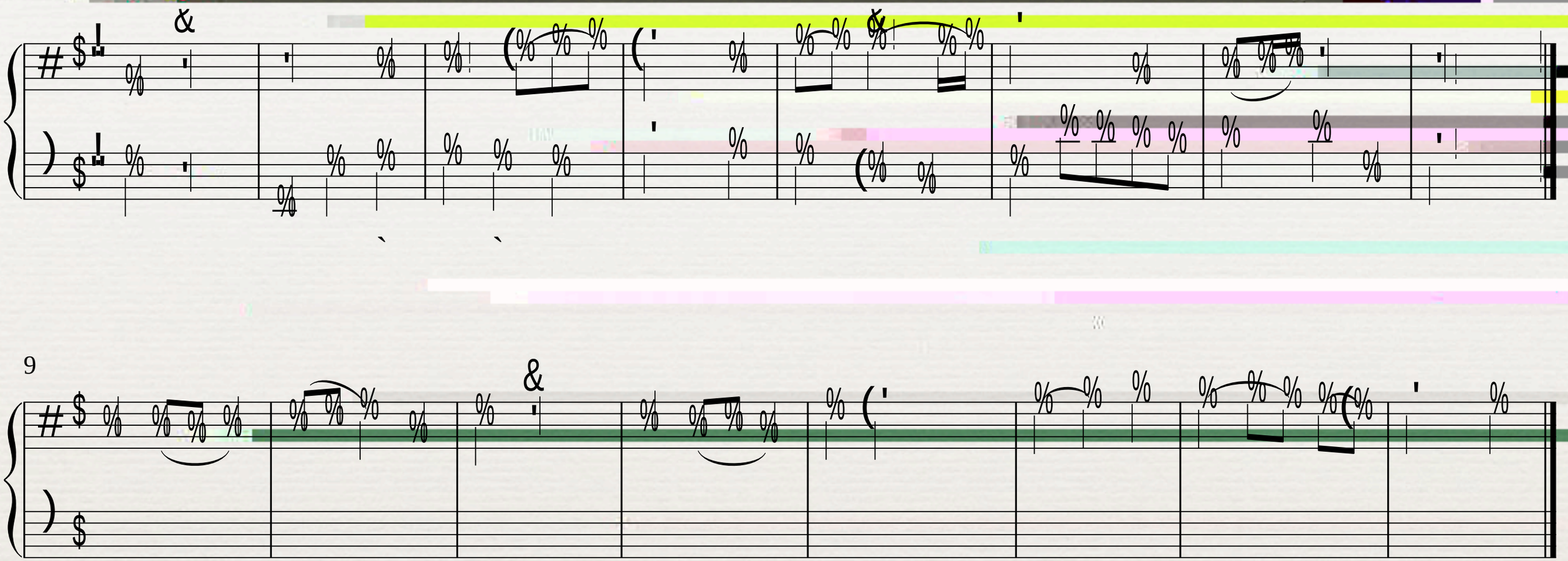


- A “dividing dominant” is indicated in the analysis with a bracketed [V]
- Note important features:
  - The dotted slur (indicated a prolongation)
  - Stems indicating the primary bass line notes
  - Flags indicating neighbor tones

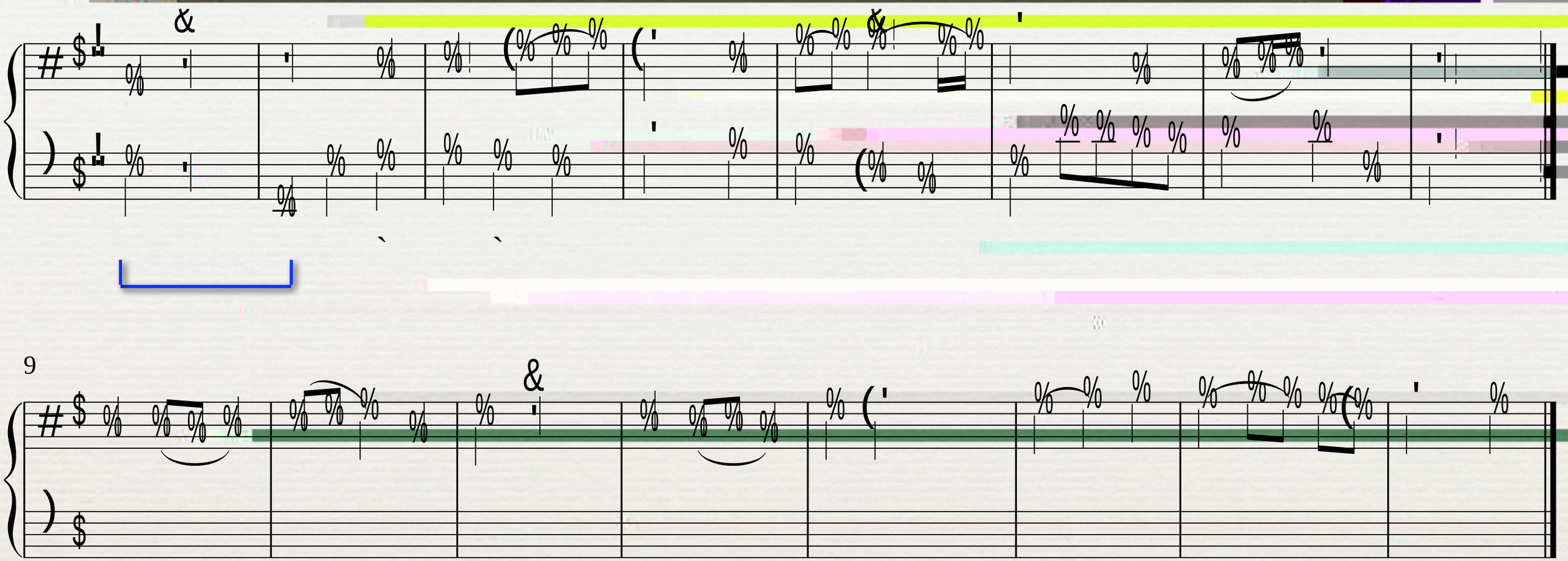
Beethoven: Sonata Op. 13, II

- A “dividing dominant” is indicated in the analysis with a bracketed [V]
- Note important features:
  - The dotted slur (indicated a prolongation)
  - Stems indicating the primary bass line notes
  - Flags indicating neighbor tones
  - Large-scale tonic prolongation

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

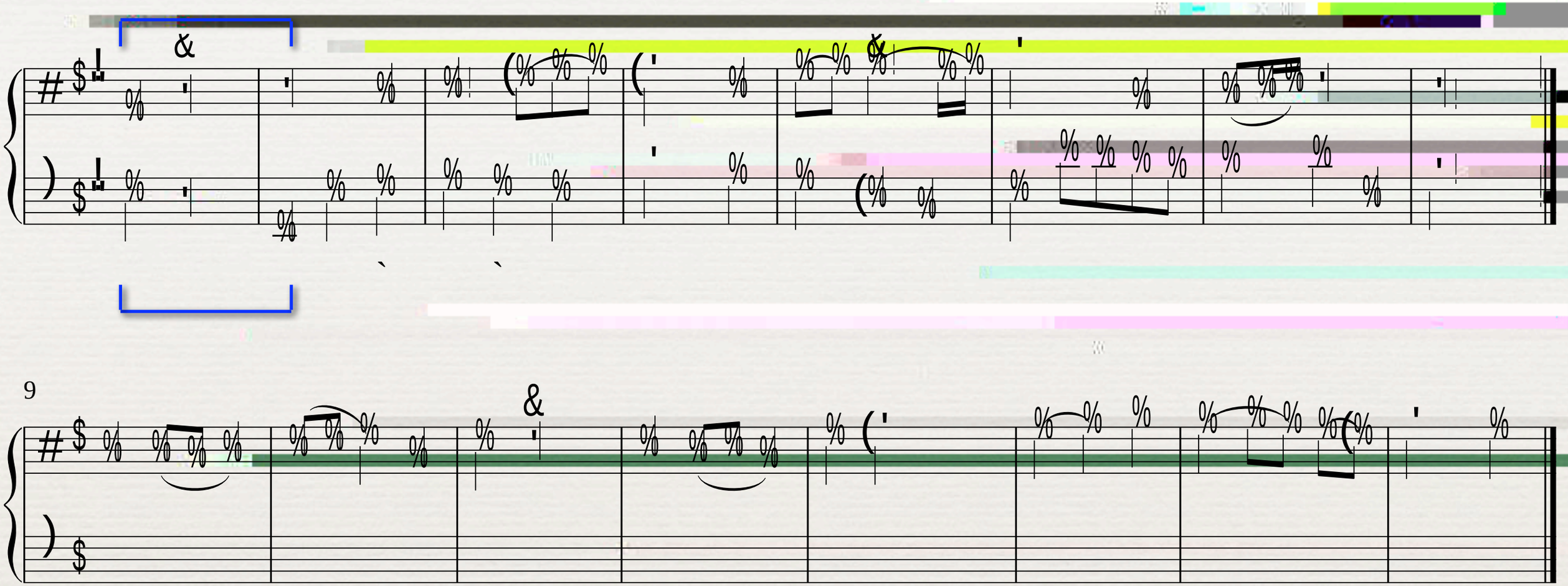


Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



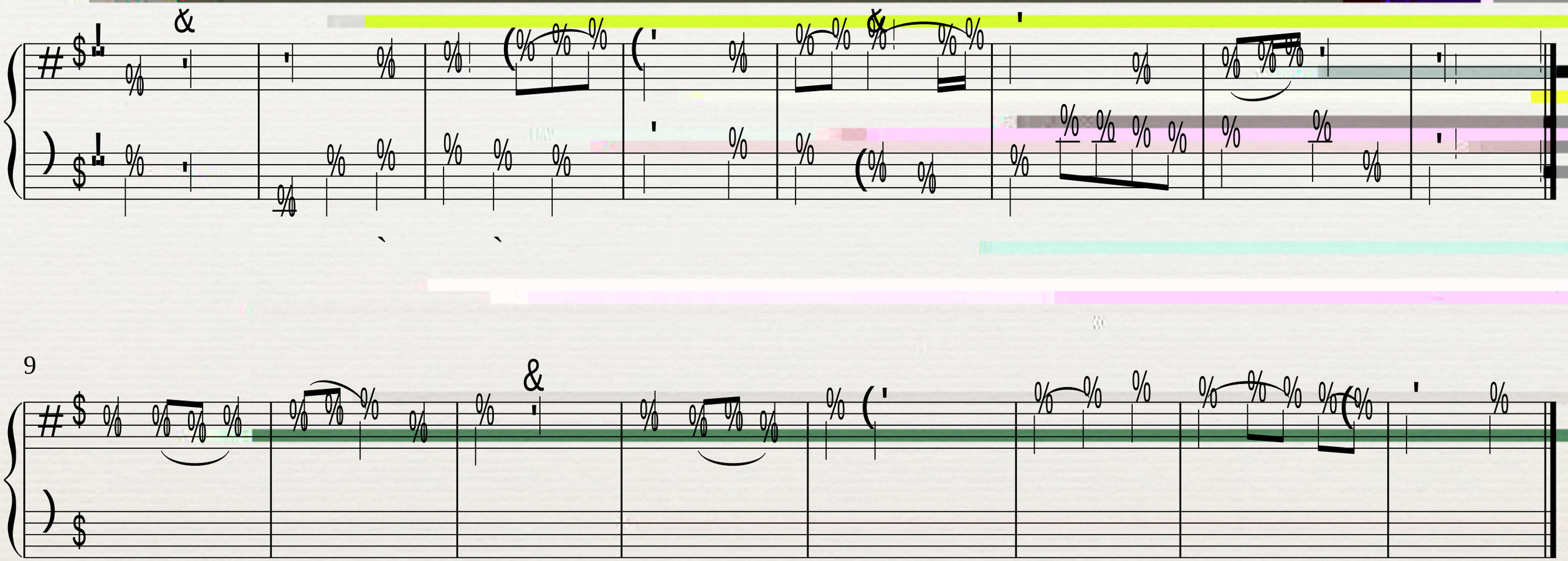
Two root-position tonic chords are connected by a dominant chord in root position—octave leap subdivided by a fifth

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

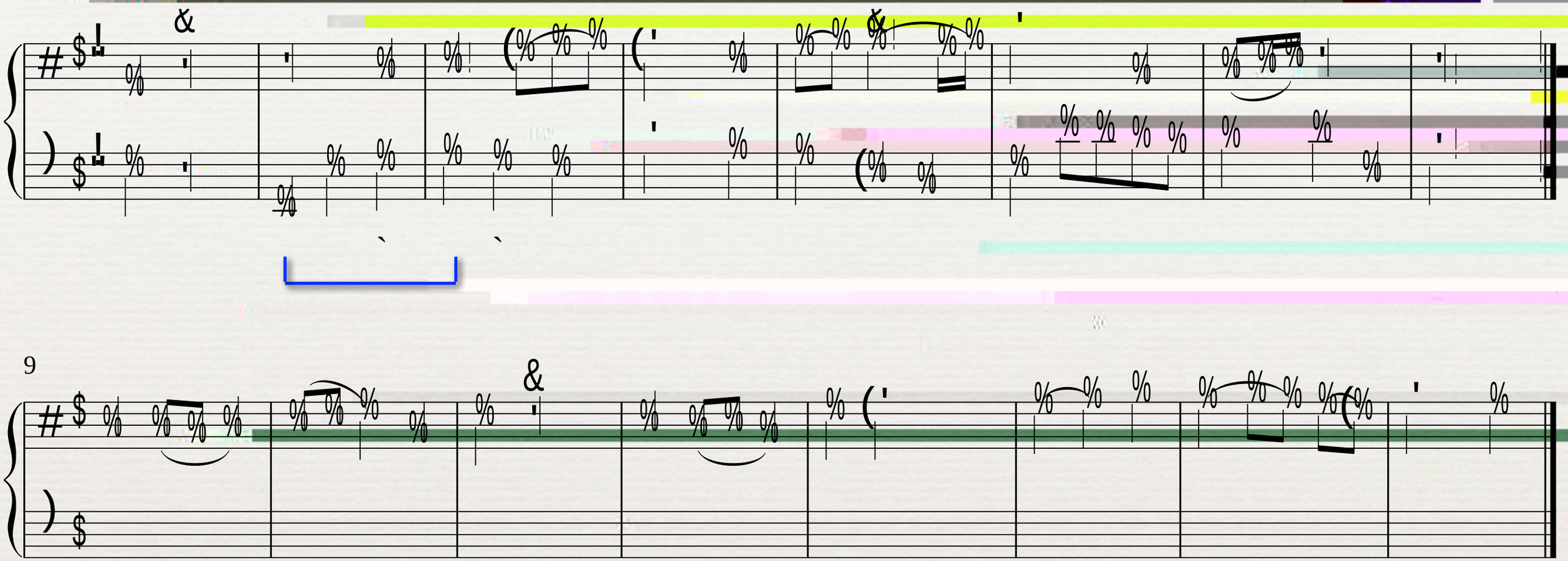


- Two root-position tonic chords are connected by a dominant chord in root position—octave leap subdivided by a fifth
- Soprano moves from ^1 to ^3; thus the tonic triad is fully outlined in both voices.

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

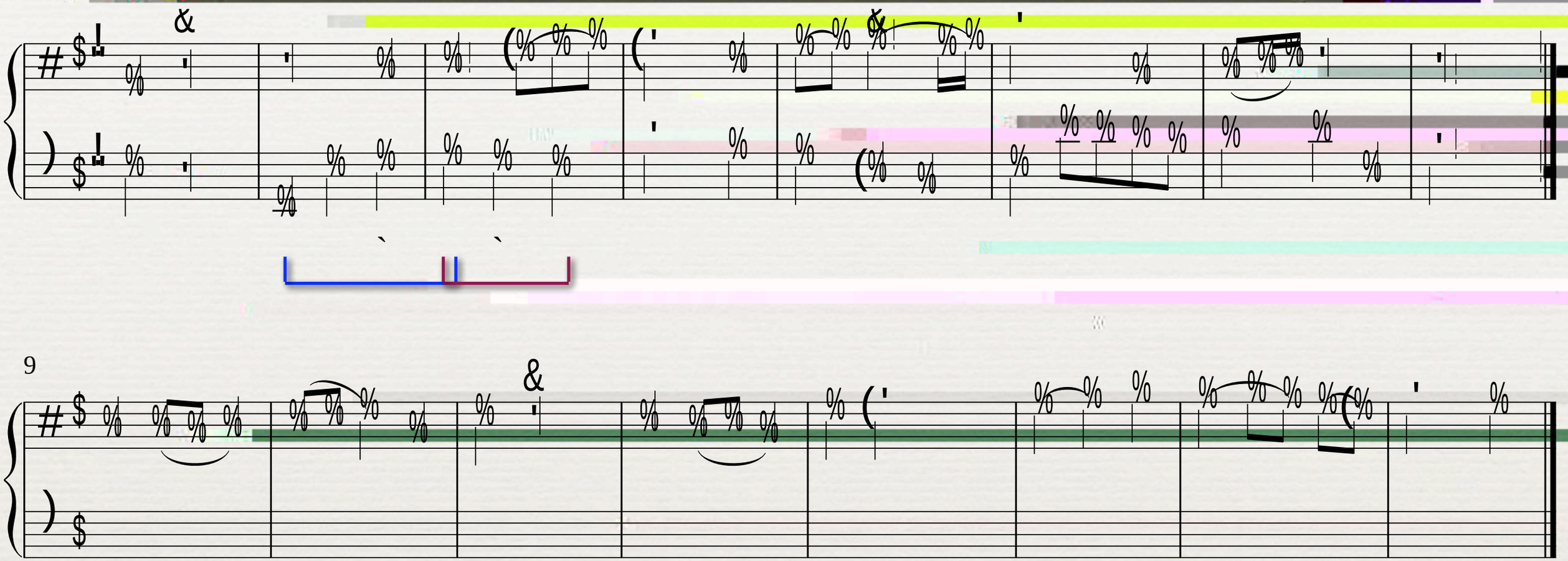


Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



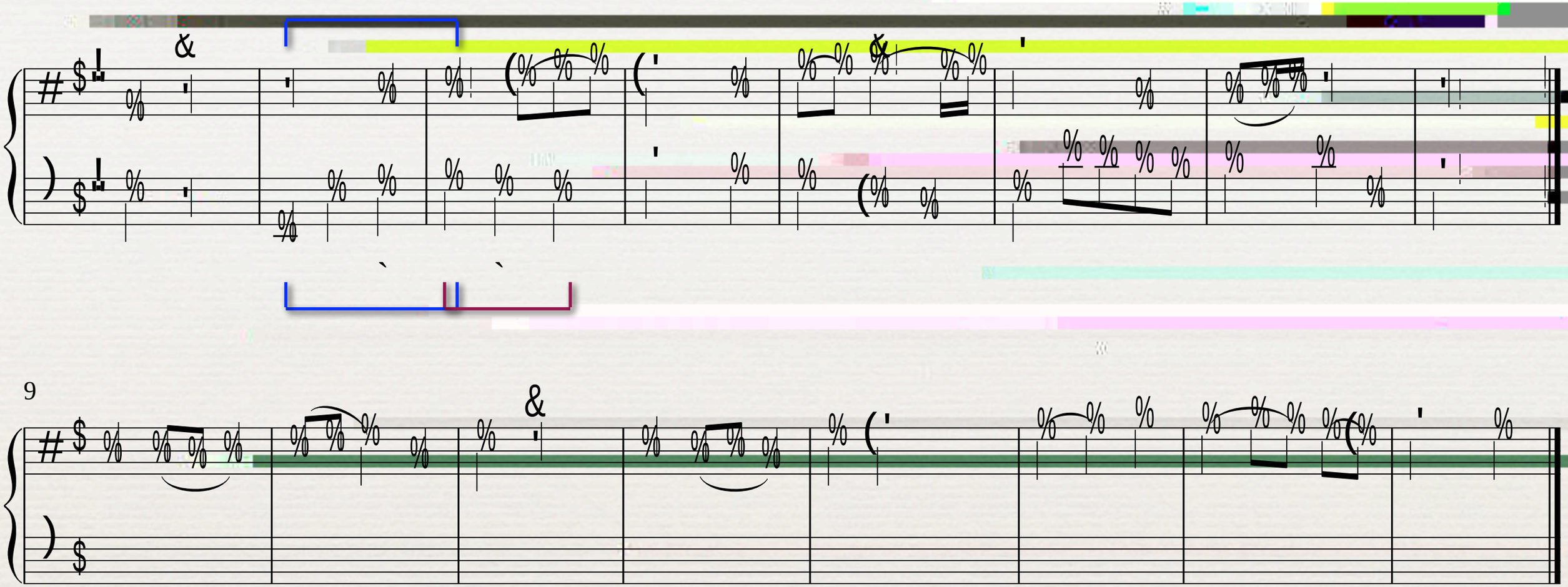
- Register transfer back to original octave; motion from I to I6 via a passing vii6.

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



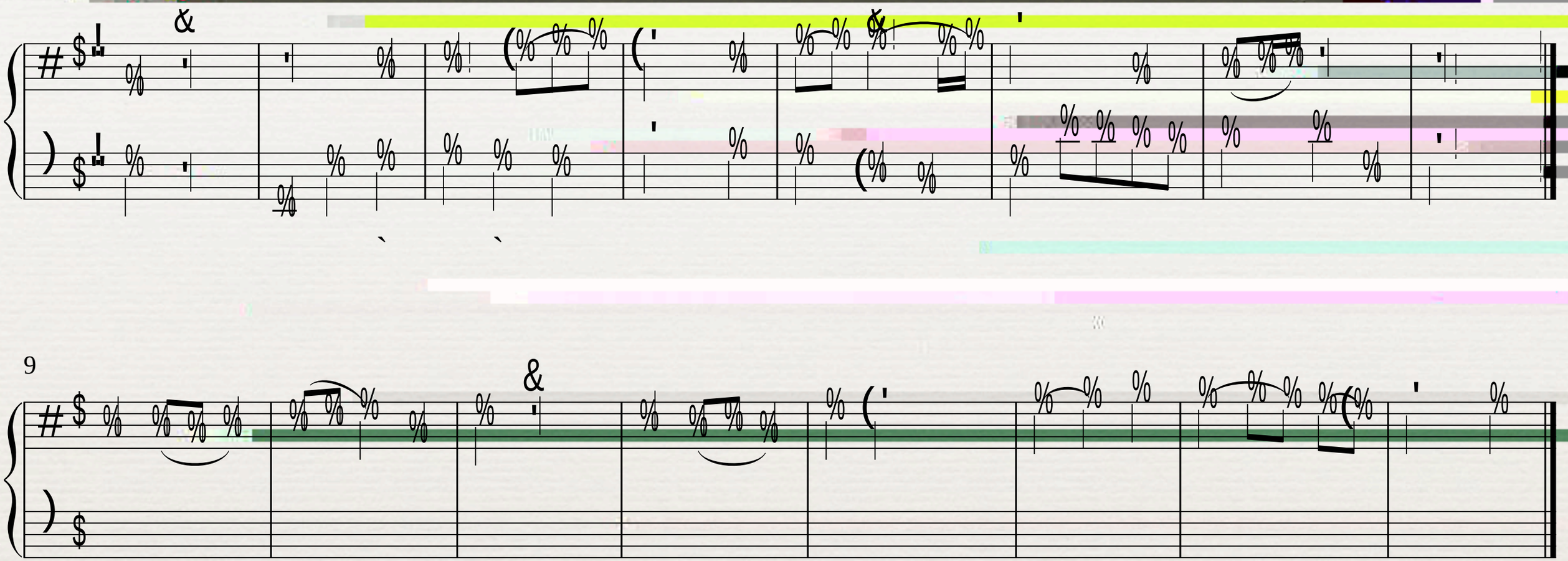
- Register transfer back to original octave; motion from I to I6 via a passing vii6.
- Return to root-position tonic by means of a V43.

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

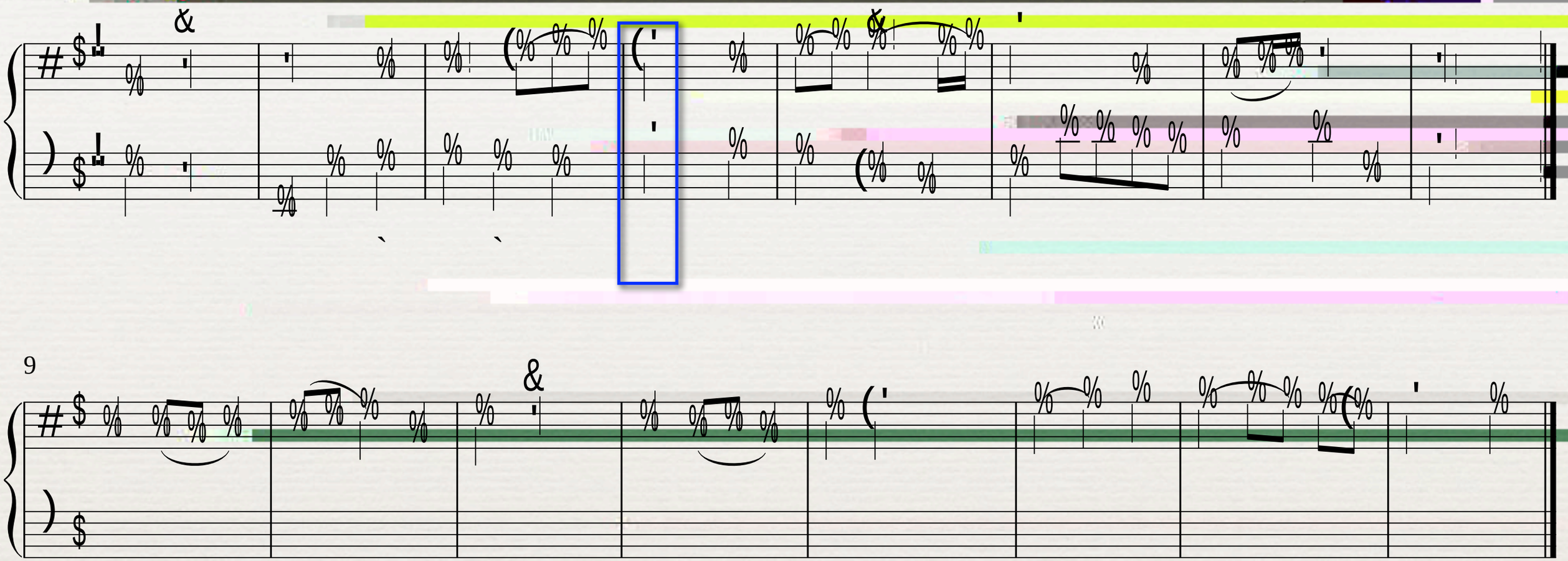


- Register transfer back to original octave; motion from I to I6 via a passing vii6.
- Return to root-position tonic by means of a V43.
- Motion from ^3 to ^6 of the tonic triad

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

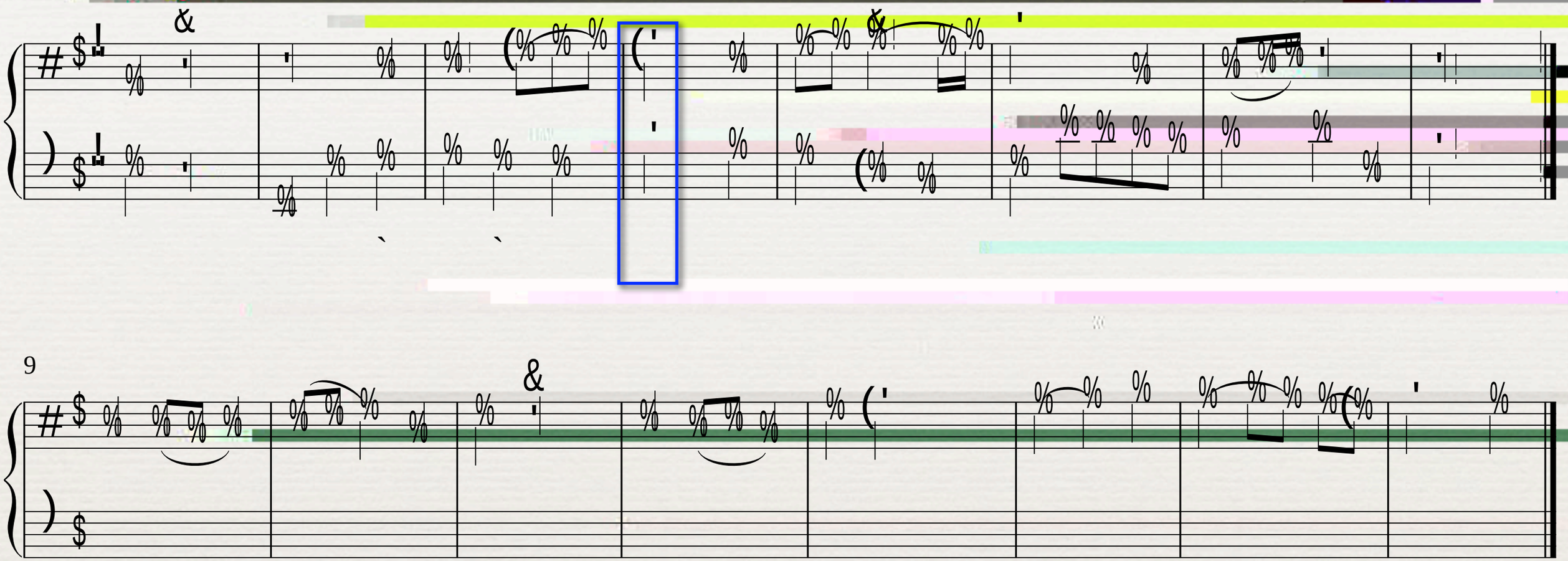


Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



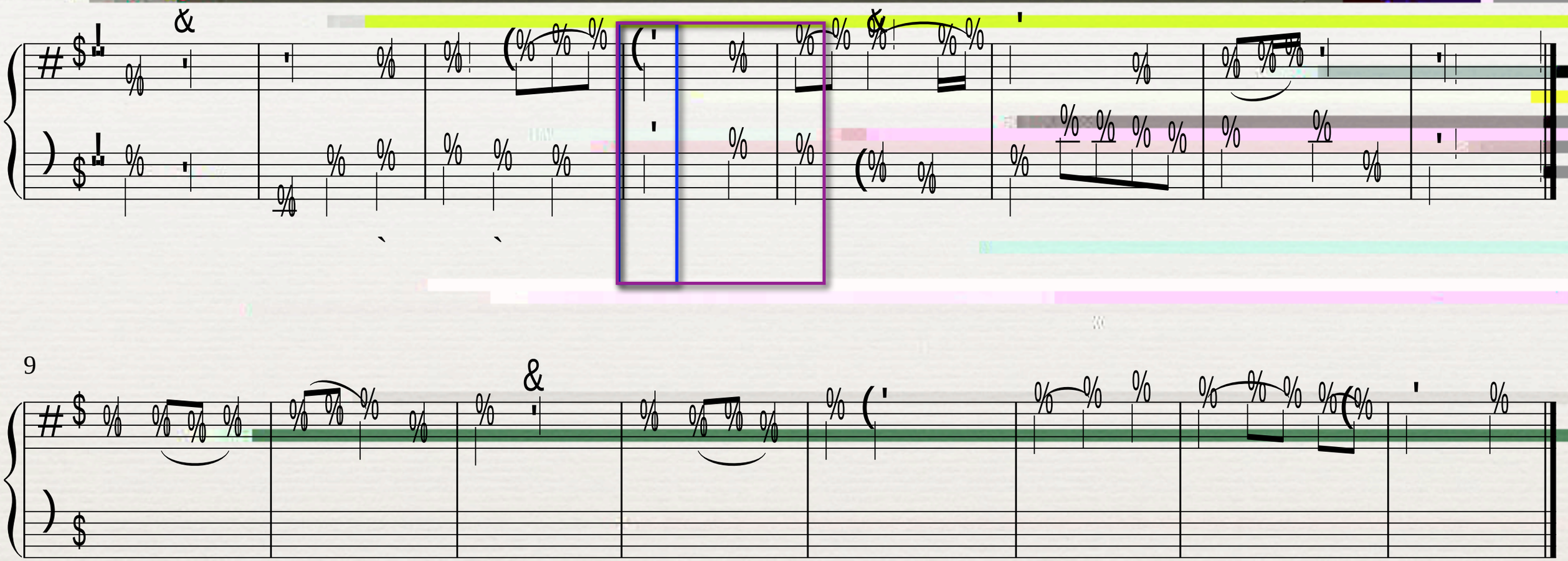
Arrival at a dominant chord at bar 4, however the chord is not entirely stable

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



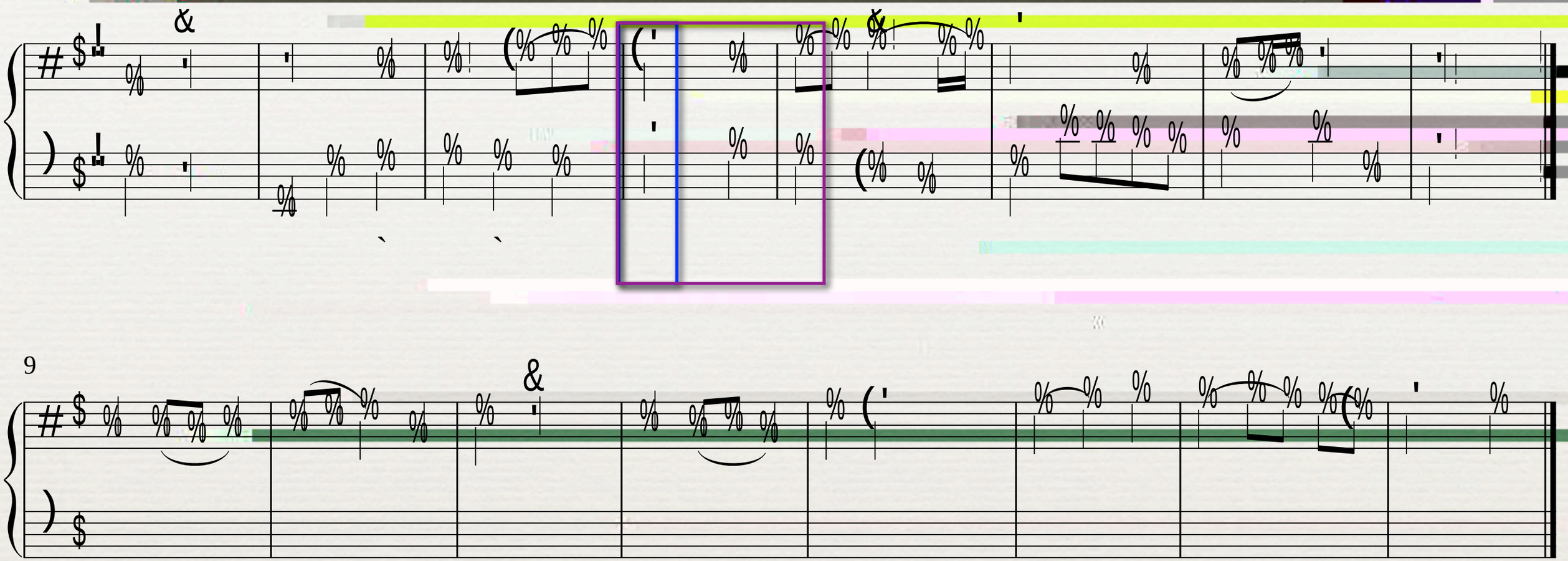
- Arrival at a dominant chord at bar 4, however the chord is not entirely stable
  - The soprano note is the leading tone

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



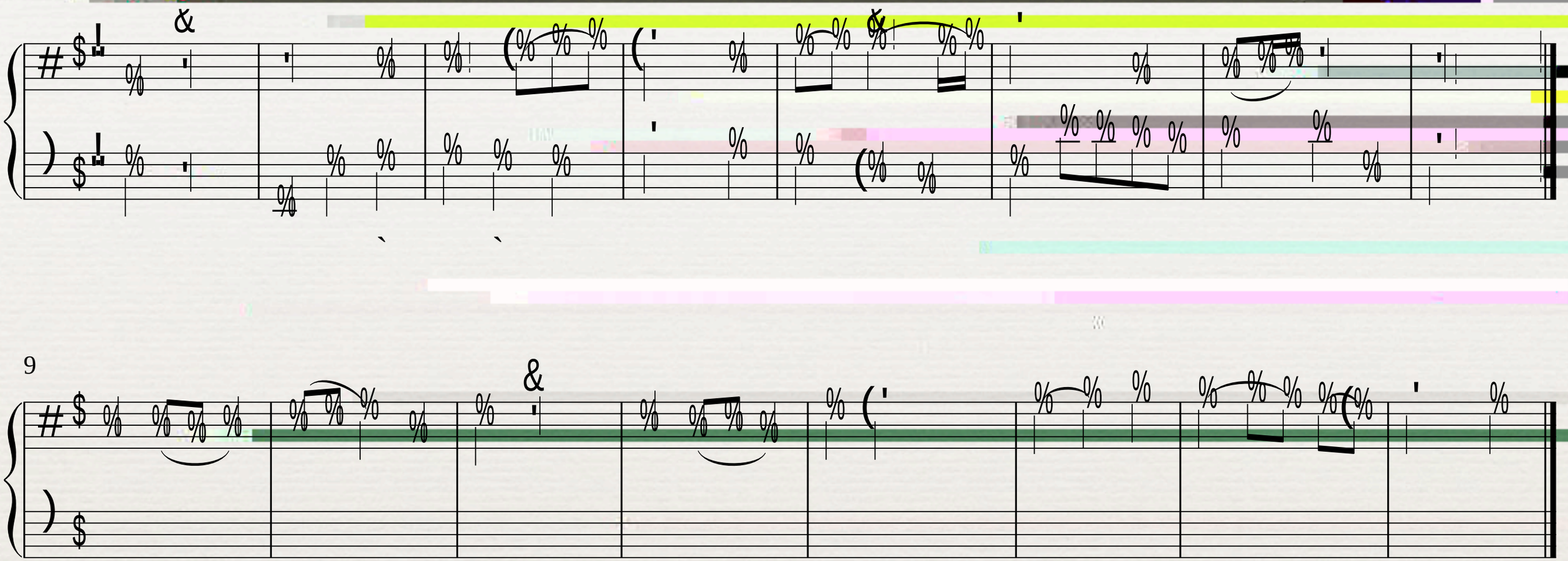
- Arrival at a dominant chord at bar 4, however the chord is not entirely stable
  - The soprano note is the leading tone
  - Bass moves back through V42 to I63

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

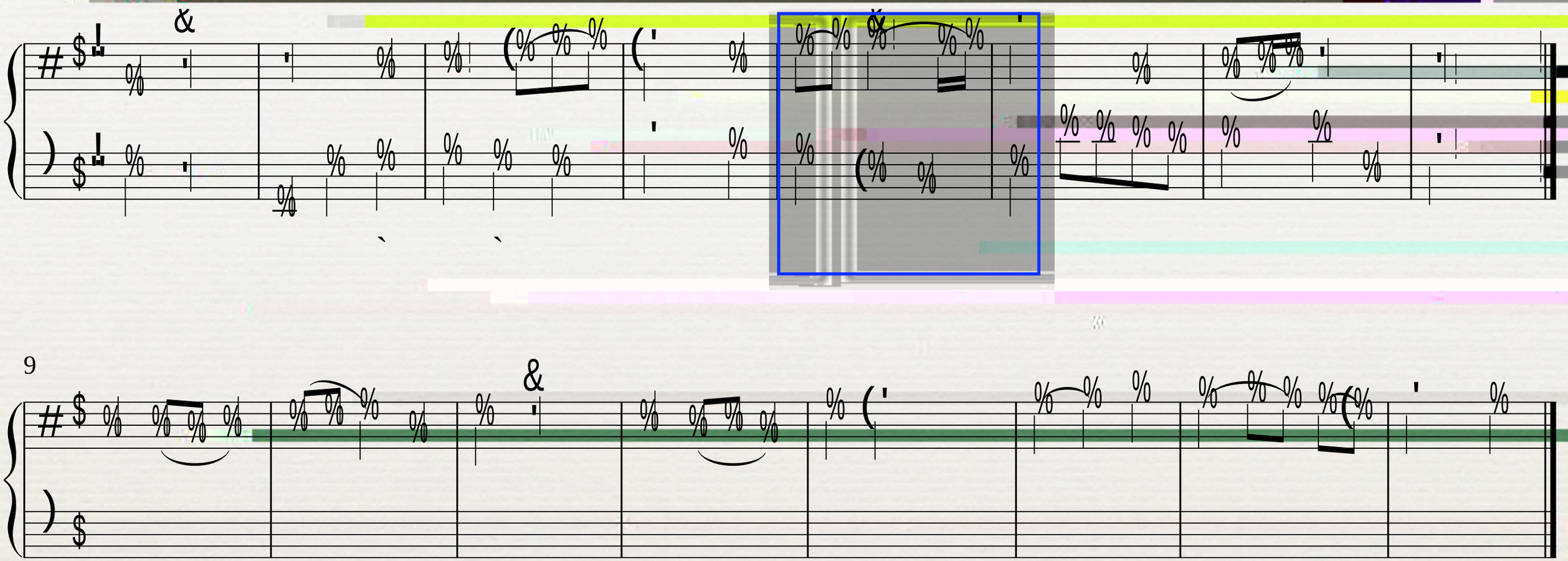


- Arrival at a dominant chord at bar 4, however the chord is not entirely stable
  - The soprano note is the leading tone
  - Bass moves back through V42 to I63
- Thus this is a “dividing” dominant

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

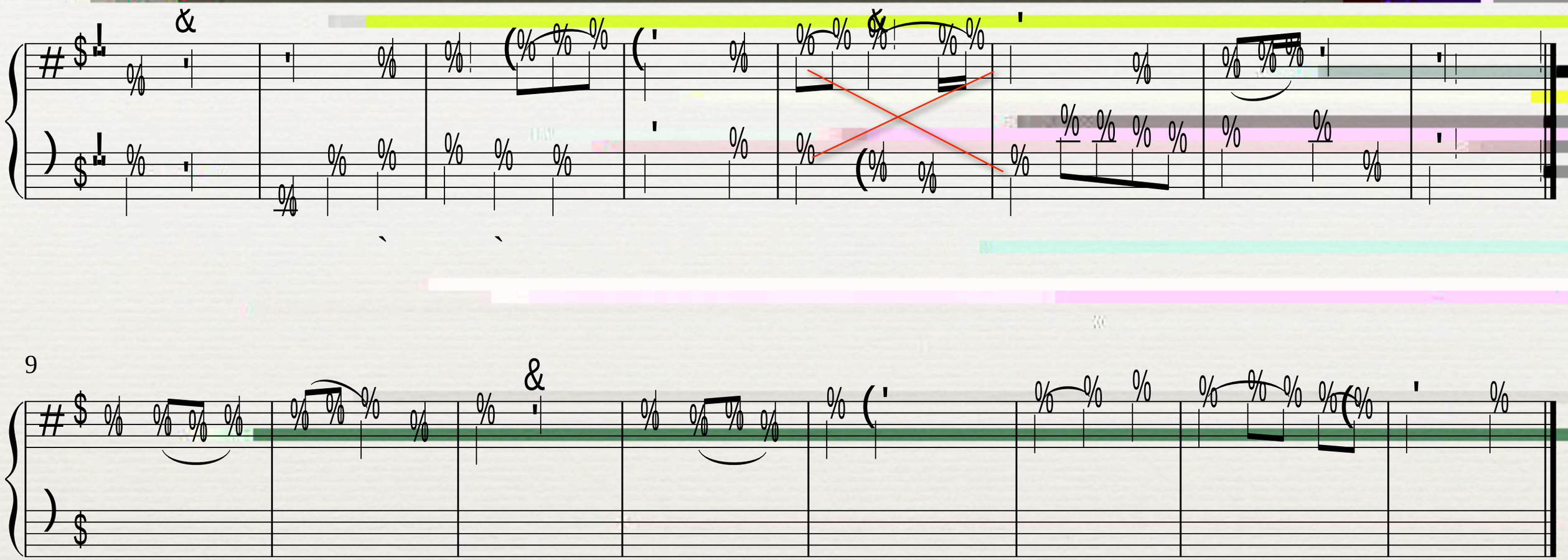


Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



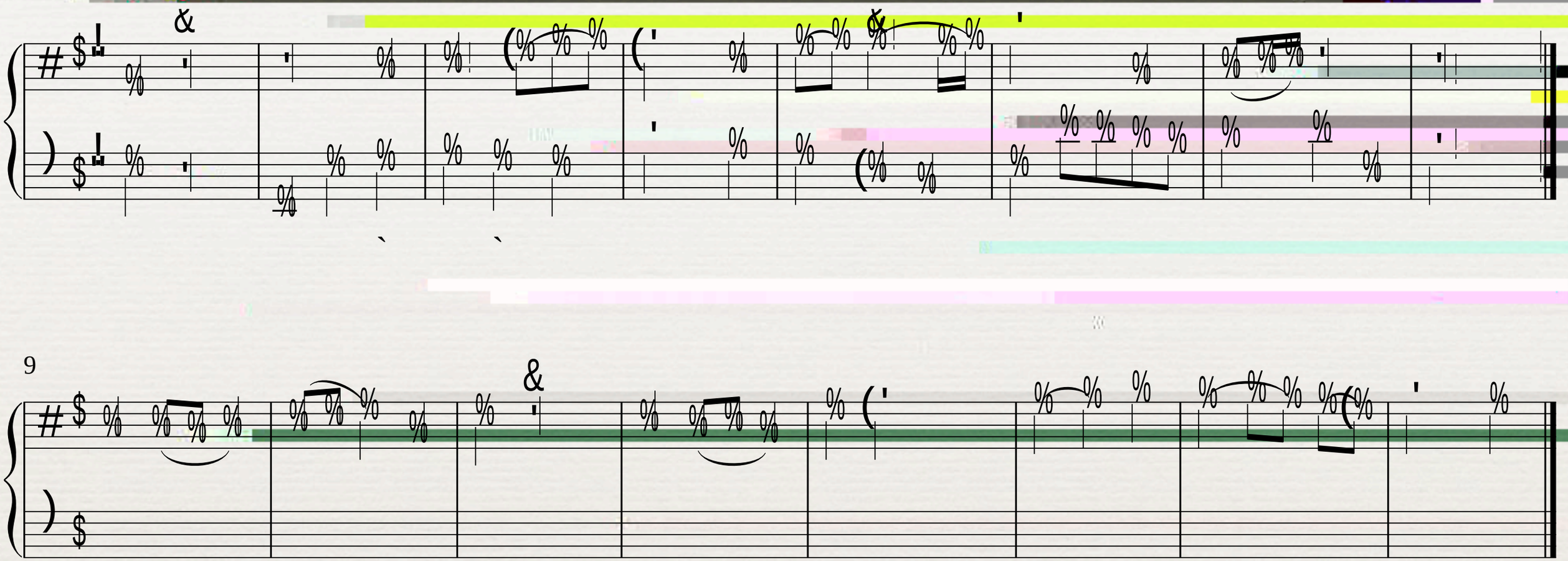
Return to I; notice the combination of stepwise motion and leaps in the bass.

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

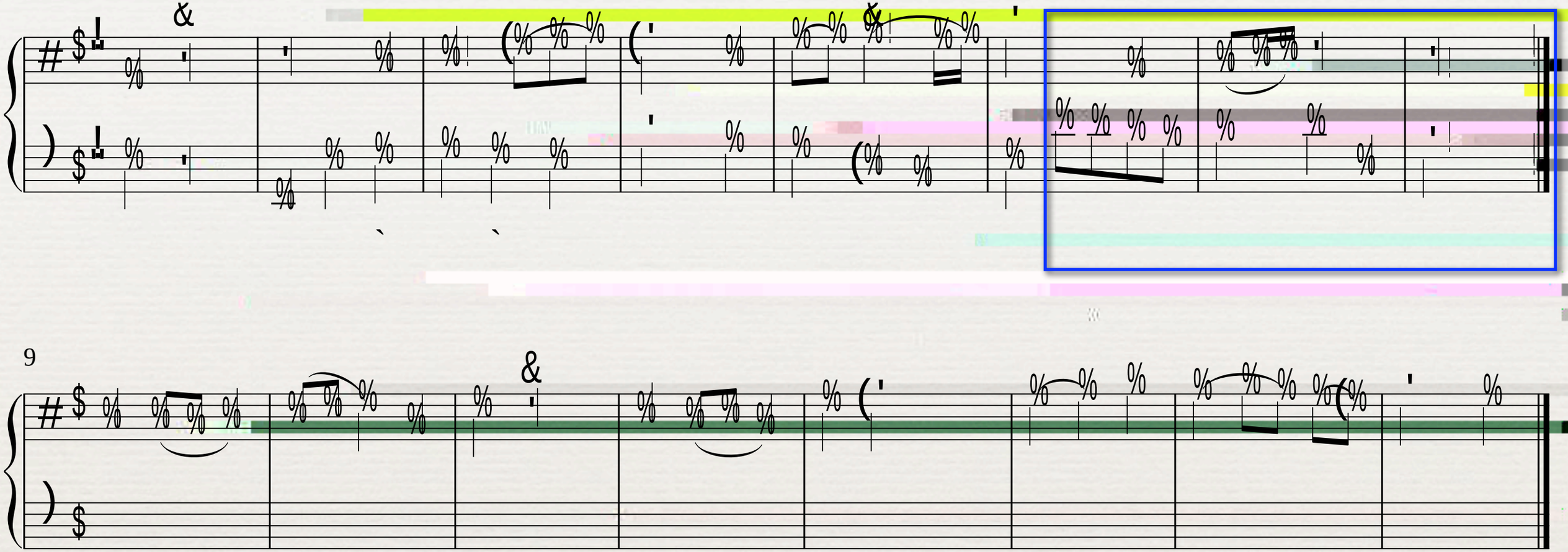


- Return to I; notice the combination of stepwise motion and leaps in the bass.
- There is a *voice exchange* between the outer voices in this motion from I6 to I

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

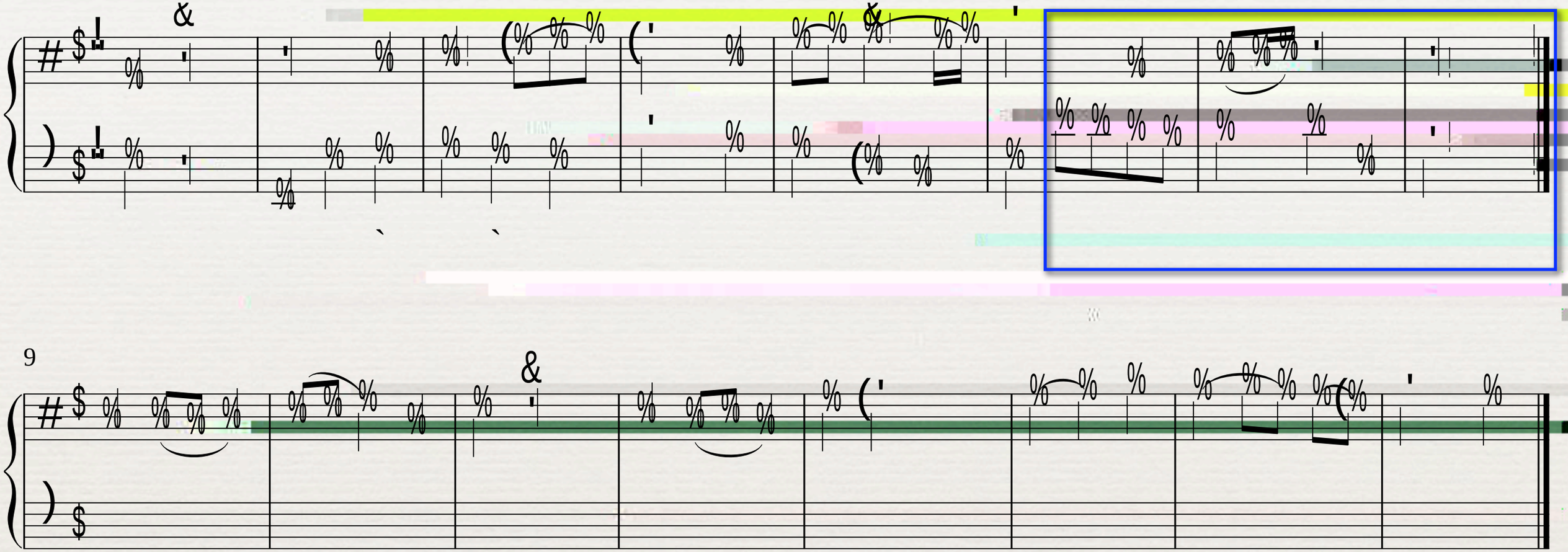


Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



- Modulation to III.

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”



- Modulation to III.
  - F is established as a key area in its own right

Modulation

- Although in a modulation the piece does “change key”, as a rule it is the very tension created by the key change—and the eventual return to the original tonic—which makes modulation useful in musical structure.

Modulation

- Although in a modulation the piece does “change key”, as a rule it is the very tension created by the key change—and the eventual return to the original tonic—which makes modulation useful in musical structure.

- Therefore, the new key is both a new tonic, and still retains whatever secondary quality in the old key (i.e., if you modulate to V in a major key, the V is a new key, but still acts like the dominant in the original key.)

Modulation

- Although in a modulation the piece does “change key”, as a rule it is the very tension created by the key change—and the eventual return to the original tonic—which makes modulation useful in musical structure.
- Therefore, the new key is both a new tonic, and still retains whatever secondary quality in the old key (i.e., if you modulate to V in a major key, the V is a new key, but still acts like the dominant in the original key.)
- Because of that, Schenker referred to modulation as motion to an “illusory key.”

Bach: Chorale “Ihr Gestirn, ihr hohen L.6n L

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

- Tonic prolonged to bar 8

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

- Tonic prolonged to bar 8
- Int harmony from 8 - 15

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

- Tonic prolonged to bar 8
- Int harmony from 8 - 15
- D harmony at 15

Bach: Chorale “Ihr Gestirn, ihr hohen Lüfte”

- Tonic prolonged to bar 8
- Int harmony from 8 - 15
- D harmony at 15
- Final T harmony at 16

Imaginary Continuo

Imaginary Continuo

- An *imaginary continuo* creates a harmonic representation of a composition, removing melodic and harmonic embellishment

Imaginary Continuo

Imaginary Continuo

- An *imaginary continuo* creates a harmonic representation of a composition, removing melodic and harmonic embellishment
- Feel free to move between three and six voices
- Try to stay with relatively “pure” voice leading, unless to do so means to seriously misrepresent the composition

Imaginary Continuo

- An *imaginary continuo* creates a harmonic representation of a composition, removing melodic and harmonic embellishment
- Feel free to move between three and six voices
- Try to stay with relatively “pure” voice leading, unless to do so means to seriously misrepresent the composition
- Generally think of piano style—the RH plays complete chords, while the LH plays single bass notes

Beethoven: Sonata Op. 10 No. 1, II

Beethoven: Sonata Op. 10 No. 1, II

The imaginary continuo follows the original pretty closely.

Beethoven: Sonata Op. 10 No. 1, II

- The imaginary continuo follows the original pretty closely.
- Note: my version is a bit different from the text; I think their version in bars 6 & 7 was a bit too “convenient” and slightly misrepresented the music.