

JPL SONATA

2017

FOR TRUMPET AND PIANO

KYLE GULLINGS



<http://www.kylegullings.com>

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JPL Sonata

2017

for Trumpet and Piano

*This work was composed for my colleague and friend, trumpeter Dr. Jeremy McBain.
It is dedicated to the idea that humanity is not yet done exploring.*

I. Kepler-16b:

Where Your Shadow Always Has Company

II. Titan:

Ride the Tides through the Throat of Kraken

III. PSO J318.5-22:

Where the Nightlife Never Ends

Notes on the Composition

My *JPL Sonata* is inspired by *Visions of the Future*, a series of futuristic space tourism posters created by NASA's Jet Propulsion Laboratory (JPL), which conducts robotic space and Earth science missions. Recalling the art style of the 1930's WPA posters, the collection facetiously advertises trips to such exotic destinations as Europa and HD 40307g, and ignites the viewer's imagination in the process.

<http://www.jpl.nasa.gov/visions-of-the-future>

~Kyle Gullings
(MM/DD), 2017

JPL Sonata for Trumpet and Piano

I. Kepler-16b: Where Your Shadow Always Has Company

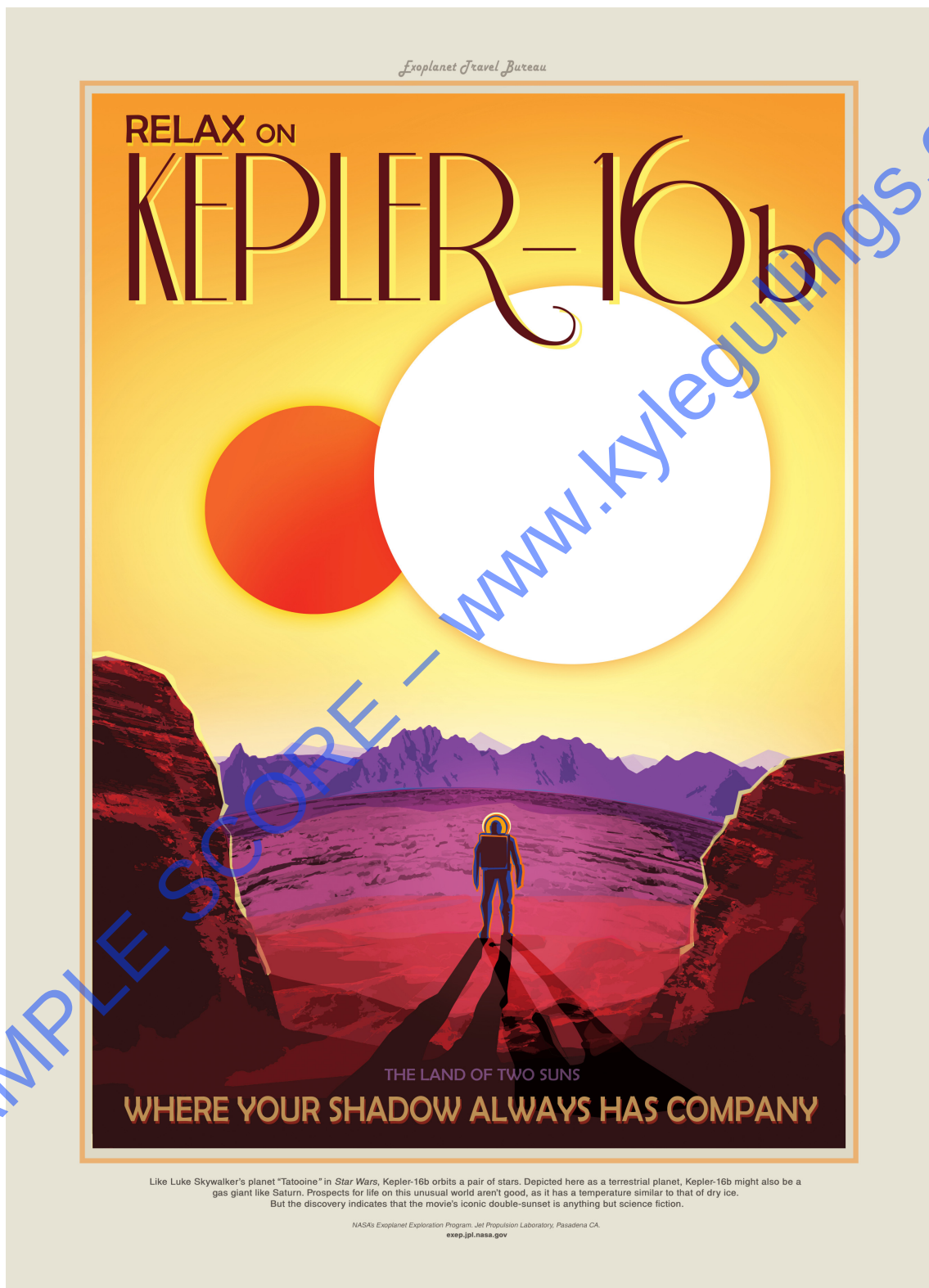


Image courtesy NASA/JPL-Caltech

JPL Sonata for Trumpet and Piano

I. Kepler-16b: Where Your Shadow Always Has Company

Kyle Gullings

Allegro, Energetic ♩ = 130

Trumpet in B $\flat$

f

3

Note: The piano's dynamics for this movement only apply to each hand separately.

Piano

B $\flat$ Tpt.

mf

4

Pno.

4

f

3

B $\flat$ Tpt.

8

Pno.

8

mf

f

3

(*mf*)

12

B $\flat$ Tpt.

Pno.

16

B $\flat$ Tpt.

Pno.

20

B $\flat$ Tpt.

Pno.

3

mf

f

mf

f

3

3

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24

B $\flat$ Tpt.

Pno.

28

B $\flat$ Tpt.

Pno.

32

B $\flat$ Tpt.

Pno.

f

mf

p

p

p

36

B $\flat$ Tpt.

mf

Pno.

f

3

40

B $\flat$ Tpt.

3

Pno.

mf

3

3

44

B $\flat$ Tpt.

3

Pno.

f

mf

48

B♭ Tpt.

Pno.

52

B♭ Tpt.

Pno.

57

B♭ Tpt.

Pno.

f

mf

f

mf

f

The musical score is for a piece titled "JPL Sonata for Trumpet and Piano – I. Kepler-16b: Where Your Shadow Always Has Company". It is page 8 of the score. The piece is in B-flat major and 4/4 time. The score is divided into three systems, each starting at measure 48, 52, and 57 respectively. The Trumpet (B♭ Tpt.) part is written in treble clef, and the Piano (Pno.) part is written in grand staff (treble and bass clefs). The score includes various musical notations such as notes, rests, and dynamic markings (f, mf). A large diagonal watermark "SAMPLE SCORE - www.kylegullings.com" is overlaid on the score.

61

B $\flat$ Tpt.

Pno.

mf

65

B $\flat$ Tpt.

Pno.

69

B $\flat$ Tpt.

Pno.

f

10 JPL Sonata for Trumpet and Piano – I. Kepler-16b: Where Your Shadow Always Has Company

73

B $\flat$ Tpt.

Pno.

mf

(f)

Measures 73-76. The B $\flat$ Trumpet part features a melodic line with slurs and accents. The Piano part has a complex accompaniment with slurs and a dynamic change from *mf* to *f* at measure 75.

77

B $\flat$ Tpt.

Pno.

mf

Measures 77-80. The B $\flat$ Trumpet part continues the melodic line. The Piano part has a complex accompaniment with slurs and a dynamic change from *mf* to *f* at measure 79.

81

B $\flat$ Tpt.

Pno.

Measures 81-84. The B $\flat$ Trumpet part continues the melodic line. The Piano part has a complex accompaniment with slurs.

85

B $\flat$ Tpt.

Pno.

f



89

B $\flat$ Tpt.

Pno.

mf

f



93

B $\flat$ Tpt.

Pno.

f

3

(*f*)

3



12

B♭ Tpt.

B♭ Tpt.

B♭ Tpt.

110

B $\flat$ Tpt.

sub. *p*

110

Pno.

sub. *p*

[illegible]

JPL Sonata for Trumpet and Piano

II. Titan: Ride the Tides through the Throat of Kraken



Frigid and alien, yet similar to our own planet billions of years ago, Saturn's largest moon, Titan, has a thick atmosphere, organic-rich chemistry and a surface shaped by rivers and lakes of liquid ethane and methane. Cold winds sculpt vast regions of hydrocarbon-rich dunes. There may even be cryovolcanoes of cold liquid water. NASA's Cassini orbiter was designed to peer through Titan's perpetual haze and unravel the mysteries of this planet-like moon.

NASA Jet Propulsion Laboratory
www.jpl.nasa.gov

Image courtesy NASA/JPL-Caltech

JPL Sonata for Trumpet and Piano

II. Titan: Ride the Tides through the Throat of Kraken

Kyle Gullings

Adagietto ♩ = 80

Trumpet in B $\flat$

Piano

mf

mf

mp

Pedal as needed, with each change of bass

B $\flat$ Tpt.

Pno.

B $\flat$ Tpt.

Pno.

poco rubato

B $\flat$ Tpt. 14 *mp*

Pno. 14 *p* *mf* *p*

poco riten.

B $\flat$ Tpt. 17 *mf*

Pno. 17 *mp*

B $\flat$ Tpt. 19

Pno. 19 3 3 3

rubato

B♭ Tpt.

Pno.

f

mp

mf

Ped.

23

mp

Ped. up

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a tempo

Harmon Mute
(no stem)

25

B♭ Tpt.

pp

mp

Pno.

mf

30

B♭ Tpt.

pp

*mp*³

Pno.

poco rubato

34

B♭ Tpt.

Pno.

> mp

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37 *poco riten.*

B $\flat$ Tpt. *mf*

Pno. *mf*

40 *rubato*

B $\flat$ Tpt. *p*

Pno. *f* *mp*

43 *Nearly double time* $\text{♩} = 72$ *Open*

B $\flat$ Tpt.

Pno. *mf* *Ped.*

The musical score is for a piece titled "JPL Sonata for Trumpet and Piano – II. Titan: Ride the Tides through the Throat of Kraken". It is page 10 of the score. The key signature has two flats (B-flat major or D-flat minor). The time signature is 4/4. The score is for a B-flat Trumpet (B $\flat$ Tpt.) and Piano (Pno.).

The first system (measures 37-40) is marked "poco riten." and "mf". The B $\flat$ Tpt. part has a whole rest in measure 37, followed by a half note G4 in measure 38, a quarter note F#4 in measure 39, and a quarter note E4 in measure 40. The Pno. part has a complex rhythmic pattern of eighth and sixteenth notes in the right hand, and a bass line with octaves and chords in the left hand.

The second system (measures 40-43) is marked "rubato" and "p". The B $\flat$ Tpt. part has a half note G4 in measure 40, a half note F#4 in measure 41, and a half note E4 in measure 42. The Pno. part continues with a complex rhythmic pattern in the right hand and a bass line in the left hand.

The third system (measures 43-46) is marked "Nearly double time" and "Open". The B $\flat$ Tpt. part has a half note G4 in measure 43, a half note F#4 in measure 44, and a half note E4 in measure 45. The Pno. part has a complex rhythmic pattern in the right hand and a bass line in the left hand. The score ends with a "Ped." (pedal) marking in measure 46.

46

B $\flat$ Tpt.

mp

46

Pno.

Ped.

50

B $\flat$ Tpt.

50

Pno.

Ped.

53

B $\flat$ Tpt.

53

Pno.

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56

B $\flat$ Tpt. *mf*

Pno. *mp*

Ped. Ped.

60

B $\flat$ Tpt.

Pno.

Ped. sim.

64

B $\flat$ Tpt.

Pno.

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68

B♭ Tpt.

Pno.

73

B♭ Tpt.

Pno.

77

B♭ Tpt.

Pno.

f

mf

mp

The musical score is for a piece titled "JPL Sonata for Trumpet and Piano – II. Titan: Ride the Tides through the Throat of Kraken", page 13. It is written for B-flat Trumpet (B♭ Tpt.) and Piano (Pno.). The score is in B-flat major and 4/4 time. The piano part features a continuous eighth-note accompaniment in the left hand and chords in the right hand. The trumpet part has melodic lines with slurs and dynamic markings. A large diagonal watermark "SAMPLE SCORE - www.kylegullings.com" is overlaid on the page.

81

B $\flat$ Tpt.

Pno.

85

B $\flat$ Tpt.

Pno.

89

B $\flat$ Tpt.

Pno.

93

B♭ Tpt.

f

Pno.

97

B♭ Tpt.

p

Pno.

sub. *pp*

101

B♭ Tpt.

mp

Pno.

p

The musical score is for a piece titled "JPL Sonata for Trumpet and Piano – II. Titan: Ride the Tides through the Throat of Kraken", page 15. It is written for B-flat Trumpet (B♭ Tpt.) and Piano (Pno.). The score is in B-flat major and 4/4 time. The piano part features a complex, rhythmic pattern of triplets in the right hand, while the left hand provides a more melodic accompaniment. The trumpet part consists of long, sustained notes with dynamic markings. The score is divided into three systems, each starting at measures 93, 97, and 101. A large diagonal watermark "SAMPLE SCORE - www.kylegullings.com" is overlaid on the page.

105

B $\flat$ Tpt.

mf

Pno.

mp

108

B $\flat$ Tpt.

f

Pno.

mf

f

Ped.

Ped. up

Cadenza

111

B $\flat$ Tpt.

116

B $\flat$ Tpt.

Much slower $\text{♩} = 52$
molto rubato

B $\flat$ Tpt.

Pno.

Ped.

122

ff ***mp***

125

Ped.

128

rit. -----

Ped.

18

JPL Sonata for Trumpet and Piano – II. Titan: Ride the Tides through the Throat of Kraken

Tempo I ♩ = 80

132

B♭ Tpt.

Pno.

Pedal as needed, with each change of bass

B♭ Tpt.

Pno.

B♭ Tpt.

Pno.

137

137

141

141

*mf**mf**mp*

145 *poco rubato*

B♭ Tpt. *mp*

Pno. *p* *mf* *p*

148 *poco riten.*

B♭ Tpt. *mf*

Pno. *mp*

150

B♭ Tpt.

Pno. 3 3 3

rubato

B $\flat$ Tpt.

Pno.

f

mp

mf

mp

Ped.

Ped. up

The musical score is for measures 152-154. The Trumpet part (B-flat) starts at measure 152 with a forte (f) dynamic, followed by a mezzo-piano (mp) section. The Piano part (Pno.) starts at measure 152 with a mezzo-forte (mf) dynamic, followed by a mezzo-piano (mp) section. The score includes a 'rubato' marking and a 'Ped. up' instruction. A large diagonal watermark 'SAMPLE SCORE - www.kylegullings.com' is overlaid on the page.

a tempo Harmon Mute (no stem)

156

B $\flat$ Tpt.

Pno.

pp *mp* *mf*

160

B $\flat$ Tpt.

Pno.

pp

164

B $\flat$ Tpt.

Pno.

mp *mp* *poco rubato*

The musical score is written for B-flat Trumpet and Piano. It consists of three systems of music. The first system begins at measure 156, where the Trumpet part has a long note with a Harmon Mute (no stem) and the Piano part has a complex texture. The second system begins at measure 160, with the Trumpet part playing a melodic line and the Piano part providing harmonic support. The third system begins at measure 164, with the Trumpet part playing a melodic line and the Piano part playing a complex texture. The score includes dynamic markings such as pp, mp, and mf, and a tempo marking of a tempo. A watermark 'SAMPLE SCORE - www.kylegullings.com' is visible across the page.

poco riten.

167

B $\flat$ Tpt.

Pno.

mf

170

B $\flat$ Tpt.

Pno.

f

rubato

173

B $\flat$ Tpt.

Pno.

p

mp

Open

Ped. up

The musical score is for measures 167-173. It features a B-flat Trumpet and Piano. The tempo is 'poco riten.' and the dynamics range from 'p' to 'f'. The score includes a large 'SAMPLE SCORE' watermark and a 'Ped. up' instruction at the end.

176 (Open)

B $\flat$ Tpt.

mf

Pno.

mf

Ped. _____

Ped. _____

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180

B $\flat$ Tpt.

180

Pno.

Ped. _____

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JPL Sonata for Trumpet and Piano

III. PSO J318.5-22: Where the Nightlife Never Ends

Exoplanet Travel Bureau

VISIT THE PLANET WITH NO STAR

PSO J318.5-22

WHERE THE NIGHTLIFE NEVER ENDS!

Discovered in October 2013 using direct imaging, PSO J318.5-22 belongs to a special class of planets called rogue, or free-floating, planets. Wandering alone in the galaxy, they do not orbit a parent star. Not much is known about how these planets come to exist, but scientists theorize that they may be either failed stars or planets ejected from very young systems after an encounter with another planet. These rogue planets glow faintly from the heat of their formation. Once they cool down, they will be dancing in the dark. Confirmed and candidate exoplanets and all available data are listed in the NASA Exoplanet Archive.

NASA's Exoplanet Exploration Program, Jet Propulsion Laboratory, Pasadena, CA.
exep.jpl.nasa.gov

Image courtesy NASA/JPL-Caltech

JPL Sonata for Trumpet and Piano

III. PSO J318.5-22: Where the Nightlife Never Ends

Kyle Gullings

A View of the Planet with No Star:

Expansive, but never dragging $\text{♩} = 50$

Trumpet in B $\flat$

Piano

mf

7

B $\flat$ Tpt.

Pno.

14

B $\flat$ Tpt.

Pno.

p

Dancing on the Planet's Surface:**Viennese Waltz** $\text{♩} = 60$

40

B♭ Tpt.

f

Pno.

47

B♭ Tpt.

Pno.

54

B♭ Tpt.

Pno.

60

B♭ Tpt.

Pno.

66

B♭ Tpt.

Pno.

71

B♭ Tpt.

Pno.

The musical score is presented in three systems, each containing a B♭ Trumpet (B♭ Tpt.) part and a Piano (Pno.) part. The key signature is one sharp (F#). The tempo is marked 60. The score is watermarked with 'SAMPLE SCORE - www.kylegullings.com'.

System 1 (Measures 60-65): The B♭ Tpt. part begins with a melodic line in measure 60, followed by a rest in measure 61, and then continues with a melodic line in measure 62. The Pno. part provides harmonic support with chords in the left hand and single notes in the right hand.

System 2 (Measures 66-70): The B♭ Tpt. part continues with a melodic line in measure 66, followed by a rest in measure 67, and then continues with a melodic line in measure 68. The Pno. part continues with harmonic support.

System 3 (Measures 71-76): The B♭ Tpt. part begins with a melodic line in measure 71, followed by a rest in measure 72, and then continues with a melodic line in measure 73. The Pno. part continues with harmonic support.

76

B $\flat$ Tpt.

p *mf* *p*

76

Pno.

mp *f* *mp*

81

B $\flat$ Tpt.

mf

81

Pno.

f *mf*

87

B $\flat$ Tpt.

87

Pno.

The musical score is for measures 76-87 of the third movement of the JPL Sonata for Trumpet and Piano. The key signature is two sharps (F# and C#). The tempo is marked 'p' (piano). The dynamics are marked 'p', 'mf', 'f', and 'mp'. The score includes a large blue watermark reading 'SAMPLE SCORE - www.kylegullings.com'.

94

B $\flat$ Tpt.

Pno.

100

B $\flat$ Tpt.

mp

Pno.

mp

105

B $\flat$ Tpt.

mf

Pno.

mf

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111

B $\flat$ Tpt.

Pno.

f

f

Realizing There Is No Star: The Vastness of Space

116

B $\flat$ Tpt.

Pno.

pp

f

mf

122

B $\flat$ Tpt.

Pno.

mf

mp

mf

128

B $\flat$ Tpt.

Pno.

f

133

B $\flat$ Tpt.

Pno.

Dancing Anyway

Str. Mute

pp

ff sub. *pp*

139

B $\flat$ Tpt.

Pno.

146

B $\flat$ Tpt.

Pno.

152

B $\flat$ Tpt.

Pno.

157

B $\flat$ Tpt.

Pno.

Open

The musical score is presented in three systems. Each system includes a B-flat Trumpet (B $\flat$ Tpt.) part and a Piano (Pno.) accompaniment. The key signature has two sharps (F# and C#). The time signature is 3/4. The first system starts at measure 146. The second system starts at measure 152. The third system starts at measure 157. The Trumpet part in the third system ends with a rest, and the word 'Open' is written above the staff. The Piano part continues with a descending eighth-note line in the third system.

Untethered

162

B $\flat$ Tpt. *mp*

Pno. *mp*

168

B $\flat$ Tpt. *f*

Pno. *f*

174

B $\flat$ Tpt. *ff*

Pno. *ff*

180

B $\flat$ Tpt.

Pno.

senza riten.

188

B $\flat$ Tpt.

Pno.

mf

Pedal as needed, with each change of bass

Coming Back to Your Senses

194

B $\flat$ Tpt.

Pno.

f

pp

200

B $\flat$ Tpt.

f

Pno.

f

mf

205

B $\flat$ Tpt.

205

Pno.

Dancing the Viennese Waltz Again (Just Like Home)

210

B $\flat$ Tpt.

f

210

Pno.

f

217

B $\flat$ Tpt.

Pno.

224

B $\flat$ Tpt.

Pno.

230

B $\flat$ Tpt.

Pno.

mf

The image displays a musical score for a trumpet and piano duo. It consists of three systems of music, each corresponding to a specific measure range: measures 217-223, 224-229, and 230-235. The first system (measures 217-223) shows the B-flat trumpet playing a melodic line with eighth and quarter notes, while the piano provides a harmonic accompaniment with chords in the left hand and single notes in the right hand. The second system (measures 224-229) continues the melodic development for the trumpet, with the piano part featuring more complex rhythmic patterns and dynamic markings like accents (>) and slurs. The third system (measures 230-235) begins with a mezzo-forte (mf) dynamic marking for the trumpet. The piano part maintains its accompaniment role with steady chords. A large, diagonal watermark reading 'SAMPLE SCORE - www.kylegullings.com' is superimposed across the entire page.

237

B $\flat$ Tpt.

Pno.

243

B $\flat$ Tpt.

Pno.

248

B $\flat$ Tpt.

Pno.

f

sub. pp

ff

ff