

*The Origins – A Spacetime Journey* traces the pivotal stages of cosmic evolution—from the first physically describable moments to the continuous flow of space and time. Its seven sections translate scientific concepts into a dramaturgical musical narrative.

- 1. Singularity:** All the energy of the universe is concentrated in a hypothetical point of infinite density. A simmering interplay of harmonies evokes the tension of this primordial state.
- 2. Big Bang:** With the Big Bang, space, time, and musical motion begin. A fiery fanfare propels the piece toward its main theme.
- 3. Inflation:** Immediately after the Big Bang, space expands almost instantaneously during the phase of cosmic inflation. Matter and antimatter form and annihilate each other; only a small surplus of matter remains—the fraction from which all mass in today's universe ultimately derives.
- 4. Formation:** This process leaves behind a dark, homogeneous universe of subatomic particles. Gradually, the first hydrogen atoms emerge. In denser regions, gravity increases the temperature until nuclear fusion ignites—the first star is born. A broadly unfolding Adagio captures this emergence of light.
- 5. Unfolding:** The first stars create heavier elements within their cores—and in their spectacular supernova explosions. From these elements arises the diversity of cosmic matter that enables later generations of stars, planetary systems, and ultimately life itself. The universe unfolds, growing richer and more complex. The music opens accordingly, reflecting this expansion in color, variety, and breathtaking depth.
- 6. Entropy:** The introduction to the reprise traces the transition from order toward increasing turbulence. The music builds a sweeping arc toward the Allegro Grandioso, where the main theme returns in full brilliance. At its core lies the physical concept of entropy: the gradual transformation of all forms of energy into heat—an irreversible process that defines the arrow of time.
- 7. Continuum:** In the final section, the majestic fanfare rises once more, now with a distinctly conclusive character. With it, the continuum is closed in on itself and the musical arc is complete.

*The Origins – A Spacetime Journey* (dt. Ursprünge – Eine Reise durch Raum und Zeit) zeichnet die entscheidenden Stationen der kosmischen Entwicklung nach – von den ersten physikalisch beschreibbaren Momenten bis zum kontinuierlichen Fluss von Raum und Zeit. Die sieben Abschnitte übersetzen naturwissenschaftliche Konzepte in eine dramaturgische Klangreise.

- 1. Singularity (Singularität):** Alle Energie des Universums ist in einem hypothetischen, unendlich dichten Punkt konzentriert. Ein brodelndes Wechselspiel der Harmonien beschreibt die Spannung dieses Urzustandes.
- 2. Big Bang (Urknall):** Mit dem Urknall beginnen Raum, Zeit und die musikalische Bewegung. Eine feurige Fanfare reißt das Stück in Richtung Hauptthema.
- 3. Inflation:** Unmittelbar nach dem Urknall dehnt sich der Raum in der Phase der kosmischen Inflation beinahe schlagartig aus. Materie und Antimaterie entstehen und vernichten sich gegenseitig; nur ein geringer Materieüberschuss bleibt bestehen – jener Bruchteil, aus dem später alle heute existierende Masse hervorgeht.
- 4. Formation:** Dieser Prozess hinterlässt ein dunkles, gleichförmiges Universum aus subatomaren Partikeln. Allmählich entstehen daraus die ersten Wasserstoffatome. In dichteren Regionen zündet unter wachsender Gravitation die Kernfusion – der erste Stern erstrahlt. Ein weit gespanntes Adagio fängt die Geburt des Lichts ein.
- 5. Unfolding (Entfaltung):** Die ersten Sterne erzeugen in ihrem Inneren – und in spektakulären Supernova-Explosionen – schwerere Elemente. Aus ihnen entsteht die Vielfalt der kosmischen Materie, die spätere Generationen von Sternen, Planetensysteme und letztlich lebensfreundliche Welten ermöglicht. Das Universum entfaltet sich, wird komplexer und reicher. Auch die Musik öffnet sich entsprechend und spiegelt Wachstum, Vielfalt und atemberaubende Tiefe.
- 6. Entropy (Entropie):** Die Einleitung zur Reprise beschreibt den Übergang von Ordnung zu zunehmender Unruhe. Die Musik spannt einen großen Bogen bis zum Allegro Grandioso, in dem das Hauptthema in voller Strahlkraft zurückkehrt. Im Zentrum steht das physikalische Konzept der Entropie: der allmähliche Übergang aller Energieformen in Wärmeenergie – ein Prozess, der den gerichteten Ablauf der Zeit erst definiert.
- 7. Continuum (Kontinuum):** Im letzten Abschnitt erhebt sich die majestätische Fanfare erneut, diesmal mit finalem Charakter. Damit ist das Kontinuum in sich geschlossen und der musikalische Bogen vollendet.

## Instrumentation:

Score


Piccolo C \*


Flute C 1

Flute C 2

Oboe C 1

Oboe C 2 \*

Bassoon C 

Double-Bassoon C \*


Clarinet Eb \*


Clarinet Bb 1

Clarinet Bb 2

Clarinet Bb 3

Alto-Clarinet Eb \*

Bass-Clarinet Bb 

Double-Bass-Clarinet Bb 

Alto-Saxophone Eb 1

Alto-Saxophone Eb 2

Tenor-Saxophone Bb 1

Tenor-Saxophone Bb 2 \*

Baritone-Saxophone Eb \*

French-Horn F / Eb 1

French-Horn F / Eb 2

French-Horn F / Eb 3

French-Horn F / Eb 4



Flugelhorn Bb 1



Flugelhorn Bb 2

Trumpet Bb 1

Trumpet Bb 2

Trumpet Bb 3



Trombone C  / Bb  1



Trombone C  / Bb  2

Bass-Trombone C 

Baritone (Tenorhorn) Bb 

Euphonium Bb 

Tuba C  / Eb  1

Tuba C  / Bb  2

Double-Bass in C \*

Timpani

Mallets

Glockenspiel/Marimba

Percussion 1

Triangle, suspended Cymbal, Kick-Drum<sup>1</sup>

Percussion 2

Bass-Drum<sup>1</sup> (Gran Cassa), Cymbals (Pair),

Tam-tam, Bar Chimes (Mark Tree)

Snare Drum

\*) additional / optional

<sup>1)</sup> In this work, two types of bass drums are used: In the "Percussion 1" system, the kick drum is notated, which should be played with two hard mallets, lying flat on the resonant head. The most suitable drum for this is a 26" marching bass drum. In the "Percussion 2" system, the bass drum (Gran Cassa) is notated, which should be played with soft mallets. A concert bass drum with a diameter of at least 28" is most suitable for this.

<sup>1)</sup> Dieses Werk verwendet zwei Arten großer Trommeln: Im System "Percussion 1" ist die Kick-Drum (große Trommel) notiert, welche mit zwei harten Schlägeln und flach auf dem Resonanzfell liegend gespielt werden soll (flat). Am besten als "Kick-Drum" geeignet ist eine 26" Marschtrommel. Im System "Percussion 2" ist die Bass-Drum (Gran Cassa) notiert, welche mit weichen Schlägeln gespielt werden soll. Hierfür eignet sich eine Konzert-Basstrommel mit einem Durchmesser ab 28".

1. SINGULARITY  
Adagio Largo (♩ c. 55)

This is a page of a musical score for the piece "1. SINGULARITY" by EDITION RINNER. The score is for a full orchestra and includes parts for woodwinds, brass, strings, and percussion. The tempo is "Adagio Largo" with a metronome marking of approximately 55 beats per minute. The score is written in 4/4 time and features a key signature of one flat (B-flat major or F minor). A large, stylized "MUSIC" watermark is overlaid diagonally across the page. The score includes various dynamics such as *pp*, *p*, *mp*, *f*, and *ff*, as well as performance instructions like "soft cresc., decresc. ad lib." and "misurato, as written". The percussion section includes parts for Timpani, Mallets, Triangle, Bass Drum (Gran Cassa), and Snare Drum. The woodwind section includes Piccolo, Flute 1 & 2, Oboe 1 & 2, Bassoon, Clarinet Eb, Clarinet Bb 1 & 2, Alto-Clarinet Eb, Bass-Clarinet Bb, Alto-Saxophone Eb, Tenor-Saxophone Bb 1 & 2, and Baritone-Saxophone Eb. The brass section includes French Horn 1, 2, 3 & 4, Flugelhorn Bb 1 & 2, Trumpet Bb 1 & 2, Trombone 1 & 2, Bass-Trombone, Baritone (T.H.) Bb, Euphonium Bb, and Tuba 1 & 2. The string section includes Double-Bass and Double-Bass-Clarinet. The score is numbered 2 through 9 at the top.

22. BIG BANG  
Allegro (♩ = 130)

This is a page of a musical score for a piece titled "22. BIG BANG" in Allegro tempo (♩ = 130). The score is arranged for a large ensemble of instruments, including Piccolo, Flutes (1 and 2), Oboes (1 and 2), Bassoon, Clarinets in E-flat, Clarinets in B-flat (1, 2, and 3), Alto Clarinet, Bass Clarinet, Alto Saxophones (1 and 2), Tenor Saxophones (1 and 2), Bass Saxophone, French Horns (1, 2, 3, and 4), Trumpets (1 and 2), Trombones (1 and 2), Baritone/Euphonium, Trombones (1 and 2), Double Bass, Trombone, and Percussion (1 and 2), and Snare Drum. The score is divided into measures 10 through 16. The key signature is B-flat major (two flats), and the time signature is 4/4. The music features a variety of dynamics, including piano (p), fortissimo (ff), pianissimo (pp), and fortissimo-piano (fp). There are also markings for "unis." (unison) and "D-Ban: diva". The percussion part includes instructions for "susp. Cymb.", "Kick Drum (flat)", and "Cymbals (pair)". A large, stylized, diagonal watermark reading "MUSIC" is overlaid across the entire page.

Musical score for a symphony orchestra, measures 17-24. The score includes parts for Piccolo, Flutes, Oboes, Bassoon, Clarinets, Saxophones, Horns, Trumpets, Trombones, Baritone/Euphonium, Tuba, Double Bass, Trombone, Milt, Percussion, and Snare Drum. A large 'MUSIC' watermark is overlaid diagonally across the page.

Measures 17-24 are shown. The score includes parts for Piccolo, Flutes (1, 2), Oboes (1, 2), Bassoon, Clarinets (Eb, 1, 2, 3), A-Clarinet, B-Clarinet, Saxophones (A-Sax 1, 2, T-Sax 1, 2, B-Sax), Horns (Fr.Hrn. 1, 2, 3, 4), Trumpets (1, 2, 3), Trombones (1, 2, B-Tbn), Baritone/Euphonium, Tuba (1, 2), Double Bass, Trombone, Milt, Percussion (1, 2), and Snare Drum.

Key markings include *ff*, *mf*, *p*, *unis.*, and *loco*. A box containing *-/-/- 1Ab* is present in the Trombone part at measure 17.

# THE ORIGINS: A SPACETIME JOURNEY

## Overture for Concert Band

### 1. SINGULARITY Adagio Largo (♩ c. 55)

Musical notation for measures 1-10. Includes dynamic markings *pp* and *mp*, and a fermata over measure 10.

### 2. BIG BANG Allegro (♩ = 130)

Musical notation for measures 11-16. Includes dynamic markings *p* and *ff*, and triplet markings.

Musical notation for measures 17-22. Includes dynamic marking *p*.

Musical notation for measures 23-29. Includes dynamic marking *mf*.

Musical notation for measures 30-36. Includes dynamic markings *mp* and *f*.

Musical notation for measures 37-43. Includes dynamic markings *mf* and *f*.

Musical notation for measures 44-52. Includes dynamic marking *p*.

Musical notation for measures 53-61. Includes dynamic markings *p* and *mf*.

Musical notation for measures 62-70. Includes dynamic marking *p*.



69 *Oboe* *rit. play*  
*mf* *p* *p*

**3. INFLATION**  
 Allegro (♩ = 160)

77 *f*

86 *Oboe* *play*  
*mp* *f*

100 *mp*

107 *f*

114

**4. FORMATION**  
 Largo (♩ = 60)

123 *3*

131 *p* *pp < mp* *accel.*

**5. UNFOLDING**  
 Andante (♩ = 70)

141 *mf* *p* *p*

150 *pp* *mp cresc.* *rit.*

**Maestoso tenuto**  
*a tempo*

165 *f*

171 *rit. a tempo f*

178 *rit. ff mp ff*

184 **4** *p mp mf*

195 *cresc. accel. f*

203 **Allegro Grandioso** (♩ = 130) *f*

211

219 **7. CONTINUUM**  
**Maestoso**  
*ff*

224

229 *fp f*

# THE ORIGINS: A SPACETIME JOURNEY

Josef Dankl

Flugelhorn Bb 1

## Overture for Concert Band

### 1. SINGULARITY Adagio Largo (♩ c. 55)

Musical notation for measures 1-8. Includes dynamics *pp* and *mp*, and a fermata over measure 8.

### 2. BIG BANG Allegro (♩ = 130)

Musical notation for measures 9-15. Includes dynamics *p*, *ff*, and *fp*. Measure 11 has a 3/4 time signature change.

Musical notation for measures 16-21. Includes dynamics *fp* and *ff*.

Musical notation for measures 22-34. Includes dynamics *mf* and a fermata over measure 22.

Musical notation for measures 35-41. Includes dynamics *f* and *mf*.

Musical notation for measures 42-47.

Musical notation for measures 48-54.

Musical notation for measures 55-66. Includes dynamics *p* and *mp*, and fermatas over measures 55 and 66.

Musical notation for measures 67-72. Includes dynamics *p*, *mf*, and *p*. Measure 72 has a 4-measure rest.

3. INFLATION

Allegro (♩ = 160)

77 *f*

Musical staff for measures 77-83. It begins with a treble clef and a key signature of two flats. The music starts with a dynamic marking of *f* and includes accents and slurs over the notes.

84

Musical staff for measures 84-89. Continuation of the '3. INFLATION' section with various note values and slurs.

90

Musical staff for measures 90-95. Continuation of the '3. INFLATION' section.

96 **10**

Musical staff for measures 96-109. Measure 96 contains a ten-measure rest. The section concludes with triplet markings.

110

Musical staff for measures 110-114. Continuation of the '3. INFLATION' section with triplet markings.

115

Musical staff for measures 115-121. Continuation of the '3. INFLATION' section.

122

Musical staff for measures 122-127. Continuation of the '3. INFLATION' section.

4. FORMATION

Largo (♩ = 60)

Adagio (♩ = 65)

128 **12** *p* *mf* *mp* *p*

Musical staff for measures 128-145. It begins with a twelve-measure rest. The tempo changes from Largo to Adagio. Dynamic markings include *p*, *mf*, *mp*, and *p*.

5. UNFOLDING

Andante (♩ = 70)

146 **15** *mf* *cresc.* *rit.*

Musical staff for measures 146-165. It begins with a fifteen-measure rest. The tempo is Andante. Dynamic markings include *mf*, *cresc.*, and *rit.*

Maestoso tenuto

a tempo

166 *f*

Musical staff for measures 166-175. The tempo is Maestoso tenuto a tempo. It begins with a dynamic marking of *f*.

171 *rit.* *a tempo*  
*f*

Musical staff 171-176: Treble clef, B-flat major key signature. Measures 171-176. Dynamics: *f*. Tempo markings: *rit.*, *a tempo*.

177 *rit.*

Musical staff 177-181: Treble clef, B-flat major key signature. Measures 177-181. Dynamics: *f*. Tempo marking: *rit.*

**6. ENTROPY**  
Allegro (♩ = 120)

182 *ff* *p*

Musical staff 182-188: Treble clef, B-flat major key signature. Measures 182-188. Dynamics: *ff*, *p*.

189 *mp* *mf*

Musical staff 189-194: Treble clef, B-flat major key signature. Measures 189-194. Dynamics: *mp*, *mf*.

195 *cresc.*

Musical staff 195-200: Treble clef, B-flat major key signature. Measures 195-200. Dynamics: *cresc.*

**Allegro Con Fuoco** (♩ = 130)

201 *f* *f*

Musical staff 201-207: Treble clef, B-flat major key signature. Measures 201-207. Dynamics: *f*, *f*.

208

Musical staff 208-213: Treble clef, B-flat major key signature. Measures 208-213.

214

Musical staff 214-220: Treble clef, B-flat major key signature. Measures 214-220.

**7. CONTINUUM**  
Maestoso

221 *ff* *fp* *ff* *fp* *ff*

Musical staff 221-226: Treble clef, B-flat major key signature. Measures 221-226. Dynamics: *ff*, *fp*, *ff*, *fp*, *ff*.

227 *fp* *f*

Musical staff 227-232: Treble clef, B-flat major key signature. Measures 227-232. Dynamics: *fp*, *f*. Includes triplets.