



SCIENCE

10%





De lijnen in dit ontwerp staan voor de twee muzikale "bewegingen" in "Physics". De verdubbeling naar vier lijnen duidt de ontwikkeling aan die de twee muzikale gegevens in deze compositie doormaken. In de tekst van dit deel zegt de natuurkundige Nikola Tesla: "I've been feeding pigeons, thousands of them for years." De ontstane "V"-vormen verbeelden vogels in hun vlucht.

Science - Physics

Science is een compositie van Verklanking, een samenwerkingsverband tussen componist Vincent Cox, wetenschapper Dr. Tim Leufkens en dirigent Frank Marx. Het muziekstuk stelt de vraag 'wat maakt een mens een mens?' centraal. Aan de hand van de verklanking van vier wetenschappen, namelijk natuurkunde, biologie, wiskunde en psychologie wordt gezocht naar een antwoord op de vraag. De compositie heeft naast de vier wetenschappen een introducerend deel, de hypothese, en een afsluitend deel, de falsificatie. De delen heten in volgorde van verschijnen 'Hypothesis', 'Physics', 'Biology', 'Mathematics', 'Psychology' en 'Falsifiability'.

Bij 'Physics' draait het om de relativiteitstheorie en wetenschapper Tesla. De relativiteitstheorie kenmerkt zich door twee verschillende tempi die tegelijkertijd worden gespeeld. En wetenschapper Tesla werd gekarakteriseerd als een vriendelijk, bescheiden persoon. Vooral open en heldere klanken zullen aan bod komen in dit deel.

Nikola Tesla :

"Man, like the universe, is a machine"

There is no conflict between the ideal of religion and the ideal of science, but science is opposed to theological dogmas because science is founded on fact. To me, the universe is simply a great machine which never came into being and never will end. The human being is no exception to the natural order. Man, like the universe, is a machine. Nothing enters our minds or determines our actions which is not directly or indirectly a response to stimuli beating upon our sense organs from without. Owing to the similarity of our construction and the sameness of our environment, we respond in like manner to similar stimuli, and from the concordance of our reactions, understanding is born. In the course of ages, mechanisms of infinite complexity are developed, but what we call "soul" or "spirit," is nothing more than the sum of the functionings of the body. When this functioning ceases, the "soul" or the "spirit" ceases likewise.

I have been feeding pigeons, thousands of them for years. But there was one, a beautiful bird, pure white with light grey tips on its wings; that one was different. It was a female. I had only to wish and call her and she would come flying to me. I loved that pigeon as a man loves a woman, and she loved me. As long as I had her, there was a purpose to my life.

"Dinner from exactly 8.10 p.m."

Science logo: Roy Wagemans
Projectie: Harry van Meurs

SCIENCE PHYSICS

KNOWLEDGE

MATTER

Vincent Cox
Text: Nikola Tesla

The musical score is for a piece titled "KNOWLEDGE" by Vincent Cox, with lyrics by Nikola Tesla. The score is in 4/4 time and features a diverse array of instruments and percussion. The instruments listed on the left include Tuned Glass (Eb), Watergong, Tuned Pipes, Glockenspiel, Timpano 23", Timpani 26" (soft sticks), Vibraphone, Timpano 26", Marimba 1 (Timpano 29"), Marimba 2 (Timpano 32"), Waterbells (ad lib.), Timpani, Flute, Clarinet in Bb, Alto Saxophone, Trombone 1, Trombone 2, Trombone 3, Bass Trombone, Euphonium, Sample, Kuniko Instrument Spring, Maracas, Springdrum, Hihat, Waterphone, Maracas, Snare Drum, Field Drum, Suspended Cymbal, Do, Tar, 2 Temple F, Bass Drum, 2 Japanese Woodblocks, 2 Woodblocks, Small Whip, and 3 Triangles.

Key musical elements and dynamics include:

- Tuned Glass (Eb):** Starts with a note marked *p* (piano).
- Timpani 26" (soft sticks):** Features a *pp cresc.* (pianissimo crescendo) leading to a *mf* (mezzo-forte) section.
- Timpani 32" (soft sticks):** Also features a *pp cresc.* leading to a *mf* section.
- Timpani:** Includes a triplet of eighth notes marked *p*.
- Trombone 1 & 2:** Play a melodic line marked *mp dim.* (mezzo-piano decrescendo).
- Euphonium:** Features a triplet of eighth notes marked *p* and *mp*.
- Waterphone:** Includes a section marked *Waterphone, con arco, with vibrato*.
- Bass Drum:** Features a triplet of eighth notes marked *mf 3*.
- Japanese Woodblocks:** Features a *pp cresc.* section.

The score is marked with various dynamics such as *pp*, *cresc.*, *mf*, *mp*, *dim.*, and *p*. A large watermark "SCIENCE-PHYSICS" is overlaid diagonally across the page.

6

Tnd.Gls.
Watergong
Tnd. Pipes

Glsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blocks

B.Dr.
2 Jap.W.Blocks.
2 W.Blocks.
Sml. Whip
3 Tri.

Timpani 23"
wooden sticks (double strokes)
pp cresc. *mf*

mf

pp cresc.

mf dim. *mp* *p*

pp *mp dim.*

pp *mp dim.*

pp *mp dim.*

p *mp*

pp cresc. *mf*

pp cresc. *mf*

with brushes

Timpani 29"
with brushes
pp cresc.

wooden sticks (double strokes)

pp cresc. *mf*

with brushes

pp cresc.

Straight mute

pp *mp dim.*

Straight mute

pp *mp dim.*

Cup mute

pp *mp dim.*

Cup mute

pp *mp*

p

p *mp*

wooden sticks (double strokes)

pp cresc. *mf*

with brushes

pp cresc.

SCIENCE- PHYSICS

12

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3
Harmon mute

B. Tbn.
Harmon mute

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat

W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

Watergong

1 MOTION *Più mosso* ♩=72

p

with superball
pp cresc. *gliss.* *mp* *gliss.*

Tubular Bells,
lift in or out water to produce gliss. 1.

mp *gliss.*

mf cresc. *f dim.*

3 *p* *f* *p*

Windgong, with superball
pp

Japanese Woodblocks, Mokushos
ricochet with handle of superball mallet
mf

mf

SCIENCE- PHYSICS

16

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat

W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

p

with superbball

pp cresc.

gliss.

gliss.

pp cresc.

mp

with superbball

pp cresc.

mp

l.v.

2. gliss.

l.v.

3. gliss.

l.v.

mp

mp

very soft sticks

p

mf

mp

pp

gliss.

3

Cup mute

pp < mf > pp

Cup mute

pp < mf

gliss.

pp < mf > pp

pp

mp

Waterphone

pp

f

Tamtam, with superbball

pp

mp

pp

SCIENCE- PHYSICS

3 TIME

30 Tuned Glass =60 =92 Subito =60 =92 Subito rit. =60

Tnd.Gls. Watergong Tnd. Pipes *pp*

Glsp. Timp.23" *soft sticks pp cresc. f*

Vib. Timp.26" *soft sticks pp cresc. f*

Mar.1 Timp.29" *soft sticks pp cresc. f*

Mar.2 Timp.32" *soft sticks pp cresc. f* *resc. f*

W.Bls.

Timp. *medium sticks f dir* *f dim. mf > p*

Fl.

Cl.

Alto Sax.

Tbn.1 *Straight mute p f³ dim. p*

Tbn.2 *Straight mute p f³ dim. p*

Tbn.3 *Straight mute p f³ dim. p*

B. Tbn. *t mute dim. p f³ dim. p*

Euph. *open mf³ < f > pp mf < f > pp*

Sample

Kuniko Instr. Mar.small Wind Gng. Springdrum Hihat W.Phone Mar.med. Snare Drum Field Drum S.Cym. Dob. Tam. 2 Tmpl.Blecks

Tamtam, *gliss with triangle beater*

Bass Drum *soft sticks pp cresc. f*

B.Dr. 2 Jap.W.Blecks. 2 W.Blecks. Sml. Whip 3 Tri. *pp cresc. f*

SCIENCE- PHYSICS

ENERGY

39 4 =152

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

*with brushes
molto secco*
p — *mf*

*hard sticks/ wood
molto secco*
f — *mp* — *p* — *f*

Straight mute
mf — *f*

mf — *f*

p — *ff* — *p*

hat
p — *f*

rim
p — *f*

Field Drum, play on rim
p — *f*

mf — *p* — *mf* — *p* — *mf* — *p* — *mf*

mf



42

Tnd.Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

p *mf*

p *mf*

f dim. *f dim.* *p*

f *mf* *p* *f*

f *mf* *p* *f*

f *mf* *p* *f*

f *mf* *p* *f*

p *ff* *p* *p* *ff*

p *f* *p cresc.* *f*

f *p cresc.* *f*

p *mf* *p* *mf* *p*

SCIENCE- PHYSICS

FORCE
5 ♩=60

Senza Meisura

45 rit.

Tnd.Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Bcks

B.Dr.
2 Jap.W.Bcks.
2 W.Bcks.
Sml. Whip
3 Tri.

p *mf*

soft sticks
f *dim.*

mf

mf

mf

ff

ff

ff

ff

p *pp*

p *mf*

ticks, fast gliss. l.v.

s, fast gliss. l.v.

s, fast gliss. l.v.

s, fast gliss. l.v.

f

f

l.v.

<mf

THEORY
Relativity

6

$\text{♩} = 132$

(2+2+3, 2+2+2+3, 2+2+3, 2+2+2+3)

49 Tuned Cowbells

Tnd. Gls.
Watrgong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

p *mp*

pp cresc. *3*

triangle beater

block low *high*

pp

50 *simile*

Tnd. Gls.
Watergong
Tnd. Pipes

Glockenspiel, *bright/light sound*

Gls.
Timp. 23"

Vib.
Timp. 26"

Vibraphone, *bright/light sound*

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

play with brushes

Fl.

pp poco a poco cresc.

Cl.

pp poco a poco cresc.

Alto Sax.

Tbn. 1

open
p

Tbn. 2

open
p

Tbn. 3

open
p

B. Tbn.

open
dim.

Euph.

mp dim.
p

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

SCIENCE- PHYSICS

51

Tnd. Gls.
Watrgong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

Marimba, bright/light sound
pp \longleftarrow *p*

mp dim. *p*

52

Tnd.Gls.
Watrgong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

pp *p*

Marir

mp dim. *p*

53

Tnd.Gls.
Watrgong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

poco cresc.

poco cresc.

poco cresc.

pp *p*

pc

poco cresc.

mp dim. *p*

poco cresc.

SCIENCE- PHYSICS

54

Tnd. Gls.
Watrgong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

p

p

p

pp *p*

f

p

p cresc.

mf dim. *p*

p cresc.

mf dim. *p*

p cresc.

mf dim. *p*

p

mf dim. *p*

c. *mf* *mf dim.* *p*

p-

p

SCIENCE- PHYSICS

55

Tnd.Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

56

Tnd.Gls.
Watrgong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

57

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

poco cresc.

poco cresc.

poco cresc.

p *mp*

poco cresc.

poco cresc.

p *cresc.*

mf dim. *p*

p *cresc.*

mf dim. *p*

p *cresc.*

mf dim. *p*

p *mf dim.* *p*

c. *mf dim.*

p

p

poco cresc.

58

Tnd. Gls.
Watrgong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Bcks

B.Dr.
2 Jap.W.Bcks.
2 W.Bcks.
Sml. Whip
3 Tri.

mp

mp

mp

p *mf* *p* *mf*

mp

mp

p cresc. *f dim.* *p*

p cresc. *f dim.* *p*

p cresc. *f dim.* *p*

p *f dim.* *p*

.sc. *f dim.* *p*

p-

mp

SCIENCE-PHYSICS

59

Tnd.Gls.
Watergong
Tnd. Pipes

Glsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

p *mf* *p* *mf* *p* *mf*

p cresc. *f dim.* *p*

p cresc. *f dim.* *p*

p cresc. *f dim.* *p*

p *f dim.* *p*

f dim. *p*

p-

60

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.

2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

p *mf* *p* *mf* *f* *f* *f* *f* *f* *p-*

SCIENCE-PHYSICS

61

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

p *mf* *p* *mf*

cresc. *3* *3*

cresc.

cresc.

cresc.

ff dim.

p-

SCIENCE- PHYSICS

62

Tnd. Gls.
Watrgong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

cresc.

cresc.

cresc.

p *f* *p* *f*

cresc.

cresc.

f

p *f*

cresc.

p

cresc.

f

63

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

The musical score is arranged in a standard orchestral layout. The percussion section includes multiple timpani parts (23", 26", 29", 32"), watergong, and various drums. The woodwind section includes flutes, clarinets, alto saxophone, and a full complement of trumpets and trombones. The score features complex rhythmic patterns, particularly in the timpani and vibraphone parts, with dynamic markings such as fortissimo (ff), mezzo-forte (mf), and piano (p). A large, semi-transparent watermark reading 'SCIENCE-PHYSICS' is oriented diagonally across the center of the page.

64

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

p

mp

pp

dim.

7+9 8 7+9

pp

pp

pp

SCIENCE- PHYSICS

65 rit.

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

p *mp* *ppp* *ppp*

SCIENCE- PHYSICS

SCIENTIST
Tesla

30

66 7 ♩=66

The musical score is for the piece "SCIENTIST - PHYSICS" by Tesla. It is page 30 of the score, starting at measure 66. The tempo is marked as ♩=66. The score is written in 4/4 time. The instruments listed on the left are: Tnd. Gls., Watergong, Tnd. Pipes; Glsp., Timp. 23"; Vib., Timp. 26"; Mar. 1, Timp. 29"; Mar. 2, Timp. 32"; W. Bls.; Timp.; Fl.; Cl.; Alto Sax.; Tbn. 1, 2, 3; B. Tbn.; Euph.; Sample; Kuniko Instr. (Mar. small, Wind Gng, Springdrum, Hihat, W. Phone, Mar. med., Snare Drum, Field Drum, S. Cym.); Dob.; Tam.; 2 Tmpl. Blcks.; B. Dr.; 2 Jap. W. Blcks.; 2 W. Blcks.; Sml. Whip; 3 Tri.

Key musical details include:

- Vib. Timp. 26":** *con arco* marking, *p* dynamic.
- Mar. 1 Timp. 29":** *p* dynamic, triplet markings.
- Mar. 2 Timp. 32":** *p* dynamic, *con arco* marking.
- Fl.:** *p* dynamic, sextuplet (6) and triplet (3) markings.
- Fl.:** *p* dynamic, sextuplet (6) and triplet (3) markings.

67

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

69

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.
(f#)

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

71

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.
(ab)

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

mp dim. 3 3 3 3 3 3 p

pp cresc. 3 3 3 3

(eb) tr

(c) 6 6 6 6 3

f dim. 3

mf f

poco rit.

75

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

SCIENCE- PHYSICS

76 **8** Poco meno mosso $\text{♩} = 60$

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp. 23''

Vib.
Timp. 26''

Mar. 1
Timp. 29''

Mar. 2
Timp. 32''

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat

W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

START SAM

veen....."

Windgong, *play with brushes*

p dim.

Suspended Cymbal, *gliss., with triangle beater*

p

Triangles

pp

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

86

Tnd. Gls.
Watergong
Tnd. Pipes

Glsp.
Timp. 23"

Vib.
Timp. 26"

Mar. 1
Timp. 29"

Mar. 2
Timp. 32"

W. Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn. 1

Tbn. 2

Tbn. 3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar. small
Wind Gng.
Springdrum
Hihat
W. Phone
Mar. med.
Snare Drum
Field Drum
S. Cym.

Dob.
Tam.
2 Tmpl. Blcks

B. Dr.
2 Jap. W. Blcks.
2 W. Blcks.
Sml. Whip
3 Tri.

pp *cresc.* *p* *dim.*

3 3 3 3 3 3 3 3

SCIENCE- PHYSICS

Tuned Glass

95

Tnd.Gls.
Watrgong
Tnd. Pipes

Gdsp.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

SCIENCE- PHYSICS

99

Tnd. Gls.
Watergong
Tnd. Pipes

Gls.
Timp.23"

Vib.
Timp.26"

Mar.1
Timp.29"

Mar.2
Timp.32"

W.Bls.

Timp.

Fl.

Cl.

Alto Sax.

Tbn.1

Tbn.2

Tbn.3

B. Tbn.

Euph.

Sample

Kuniko Instr.
Mar.small
Wind Gng.
Springdrum
Hihat
W.Phone
Mar.med.
Snare Drum
Field Drum
S.Cym.

Dob.
Tam.
2 Tmpl.Blcks

B.Dr.
2 Jap.W.Blcks.
2 W.Blcks.
Sml. Whip
3 Tri.

START SAMPLE 4
"Dinner from exactly 8;10 p.m."