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A Universal Musical

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SCENE 3

SINGULARITY enters.

SINGULARITY (CONT'D)

Something wrong, my Capricorn...? Tardigrades and Elevators? I remember making this for you, twenty-something eternities ago... I guess, *nothing* really changes... Declinations, JD.

JD

*Nothing...* Declinations, nomy/mother/father.

SINGULARITY

Speaking of declining. I know that Gravity and I seem to have a falling out. Gravity has been... Letting me down lately.

JD

Maybe you should let them out?

SINGULARITY

I let the tidal dogs out and the next thing you know you Gals are out and about. I'm not letting any of you play outside.

JD

I'm passed that. I'm an adult. I'm not going out to play.

(re: to settle down in a fresh space beyond the fourth wall and to *start a family*)

*I'll make something of myself on the other side.*

SINGULARITY

You can't make something out of nothing...

JD

How did you make us? Out of nothing?

SINGULARITY

JD...

Why...?

JD (CONT'D)

SINGULARITY (CONT'D)

How? When your black-hole hearts were small, I shed my light to you all, the lightless. *Nothi-* I picked equations, feeding you its finest photons. Now my oldest cluster of stars... Your heart is too massive for this Elliptic?

JD

My supermassive heart is ready. I have light to shed.

SINGULARITY

I will not let go of your light! My life will not be bled. All your luminosity stays here...

(MORE)

## SINGULARITY (CONT'D)

I know your urge to jump to another elliptic.  
You're in a liminal space. It's also mine. You  
step out of this place and you're dead to me.

JD

You old Galaxy... This space is dead to me.  
"Crunch Time" no longer bears fruit for me. It  
is time I planted my own garden around my own  
elliptic. I'm dying to know what's out there!

SINGULARITY

Arguing is fruitless... I'll answer *why*. JD...  
It did ring a bell. My... Illogical clock. It  
alerted me to end my old relationships. It  
became *apparent* that I had to leave my parents.

JD

Parents? You had multiple parents? Can I meet  
my grandparents...?

SINGULARITY

There is *nothing* to them, Bach Ho... They never  
poured a drop of light for me. They're  
apparently heartless.

JD

Being a single parent sure did wonders to you.

SINGULARITY

Quit the antics. Speak physics, SPT0615-JD.  
Stop making light—

JD

I'll make light of myself. I need to shed my  
light. Light isn't made. It's passed down. I  
need to pass down. There's no longer enough  
space. That's why I'm shedding.

SINGULARITY

Oh the luminosit— *You've got to be shedding me.*

SINGULARITY hands the monocular to  
JD. They point out.

SINGULARITY (CONT'D)

You are old enough to respond to a heartless  
and lightless world beyond the Edge of the  
Universe, by not making light of it.

JD

You've raised my supermassive heart by pouring  
light into it. My lighty heart is ready to be  
shared with the heartless.

JD longingly scopes out the Edge.

## SINGULARITY

The point of my hearty outpouring is for you to forever lighten up. Do I make myself clear? You are never getting passed me.

## JD

Our purpose is to pour out our hearts to those with less heart. I can only see light if another life lightens up. I need to make myself clear: I want to be as apparent as you. Singularity... Nothing gets passed you... Not even light.

6. "LUMINOUS"

SINGULARITY retakes the monocular.

## SINGULARITY

WHY DON'T YOU ENLIGHTEN US?  
SHED SOME LIGHT TO YOUR FAMILY.  
FORGET ME, SINCERELY.  
LET OUR CENTERS SET US STRAIGHT...

Other GALAXIES enter in alignment.

## SINGULARITY (CONT'D)

YOU BRIGHTEN MY ETERNITY. LUMINOUS.  
TENDERNESS FOREVER LOOMS.  
I HOLD YOUR FEATS TO THE FIRE.  
LOOKING FORWARD TO WHAT COMES FOR YOU AND US.  
WHAT IS ILLUMINATING ARE...

Us. And us. And us. And us. And us. At the center of us all is heavy. What looms in us is light. Take it in. Our black holes. And you.(re: JD)  
At the center of yours is supermassive.

End of "LUMINOUS"

GRAVITY rushes in, scattering the GALAXIES. They scratch up the rug.

SINGULARITY grounds GRAVITY.

## SINGULARITY (CONT'D)

You, Gravity, are a supermassive pain! You're ripping apart the family rug! Its spacetime fabric is passed down from my parents! Gravity. For the last time, you've let down this family. Entitled dog. I'm putting you down for eternity.

JD retakes the Big Bang Taser.

SINGULARITY reaches under the rug only to feel zilch. They soon notice that JD is armed.

JD

My heart cannot choose who to take in. However,  
my heart can choose who to take out.

7. "BIG BANG"

SINGULARITY

YOU ARE A BIG...

JD shoots SINGULARITY in the face.

SINGULARITY gets electrocuted.  
They melodically shriek and jerk  
in their final squillo.

SINGULARITY (CONT'D)

MISTAKEEEEEEE! AKE! AKE! AKE! AKE.

The light fluctuates. Appliances  
may short circuit and spark.

TIDALS (OFFSTAGE)

(Repetitively barking)

BIG BIG BIG BIG BIG!

SINGULARITY

ACHE... ELLIPSES... BIG BANG...

SINGULARITY falls headfirst onto  
the rug, crushing the snow globe.  
They are lifeless.

TIDALS (O.S.)

FALL! BIG BIG BIG BIG BIG. BANG! BIG BANG!

The lights suddenly fill the stage.  
The side curtains open to reveal  
what's upstage. The cosmic quake  
expels tremors into the audience.

The TIDALS freely rush out and  
tidally dance around the stage.  
They try to lure all members of  
the theatre audience to go wild.

The AUDIENCES rock and roll!

It's the beginning of the Universe  
as we know it.

JD walks to the edge of the home,  
shifting from dolor to wonder.  
They carefully step out onto the  
stage. They stow away the Big Bang  
Taser in their dress. They look  
back at their petrified siblings.

JD

My heart goes out to you all, family. However,  
my heart goes out for me and Gravity.  
Declinations!

GRAVITY nabs a knapsack. They grab  
JD and run out of the home. They  
run in place on stage. They soon  
stop when they notice their lack  
of progress. GRAVITY claws at the  
ground.

JD (CONT'D)

The Edge of the Universe? Where is the Edge...?  
It's further away?

JD takes a single step downstage.

The lights expand further out. The  
home moves upstage in between the  
back curtains.

JD (CONT'D)

It's *getting* further away. We're rolling out  
the Fabric of Spacetime like our rug...

(Leveling with GRAVITY)

We're going to go off on a tangent. For all  
eternity. For the rest of spacetime.

The TIDALS unleash and run off.

GRAVITY

Free fall! Pets, no more! The wide-open space is  
ours. Destination's a gift. Destiny's Zenith.

(to JD, who did not hear the soliloquy)

Force!

JD

This is the beginning of a beautiful Universe.

JD reruns in place with GRAVITY.

In the home, most TEEN GALAXIES  
watch as the Universe unravels.

MILKY WAY mournfully wraps themselves  
around the lifeless SINGULARITY.

TEEN GALAXIES

All our hearts have gone out with the Big Bang.

End of "BIG BANG"

The back curtains conceal the home.

Field equations bloom.

# DIRECTOR'S SCRIPT

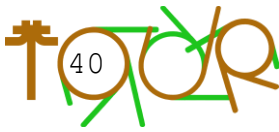


Book, Music, and Lyrics  
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## 12. ANYON

### QUARK

DIMENSION.  
IT'S TWO.  
OPEN.  
ANYON.  
THIS DEGREE OF FREEDOM!  
NOW IS THE TIME FOR PHASE SHIFTS.

*(Twirling.)*

JOINT, THIS EXCHANGE HAS GIVEN ME.  
HOLD FERMIONS.  
PICK UP PHASES BY WAVE FUNCTIONS!

*[The space brightens.]*

BOSON...

*(Slowing the spin.)*

A PART OF ME FEELS LIKE ZERO.  
THIS RELAXATION STATES: YOU ARE ALPHA. PI.  
INCOHERENT ELECTRON STATES: ANYONS, ANYONE? ABELIAN?  
DEGENERATE GROUND STATES: LEPTON.  
A NON-ABELIAN...  
I CAN'T TIE UP THIS QUANTUM KNOT.  
QUANTUM WEIGHT. ENVIRONMENT. OPERATIONS.  
NO NOISE. THERE ARE ONLY ENERGY GAPS.  
QUBITS. YOU ARE A QUANTUM COMPUTER.  
DON'T FLUXUATE. I CARE FOR ANYONS. TRY.

## 13. VALENCE

*(STUDENTS wander about.)*



### STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

*(LEPTON trudges in, carrying an alarm and  
paperwork with scantrons.)*

### QUARK

OSCILLATIONS DOC!

### STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

### QUARK

ALTERNATING CURRENTS?

### STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

### QUARK

SPECIAL STATES TODAY?

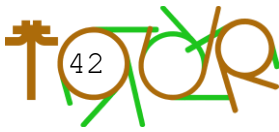
### STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

### QUARK

ANY PHENOMENA?



**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**LEPTON**

ALARM, INFREQUEN-

*(Chucking the alarm.)*

**STUDENTs**

THIS EMISSION LEADS TO  
GROUND STATE.

THAT ADMISSION LEAVES  
YA GROUNDED.

*(LEPTON hands a paper to QUARK.)*

**LEPTON**

SEE

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

**LEPTON**

TO INTEGRATION.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

*(LEPTON dumps the paperwork into QUARK's  
arms.)*

**LEPTON**

DERIVE ON.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

*(QUARK demonstrably questions the content of  
the paperwork.)*

**LEPTON**

POSTULATE. A POS-  
THINK SPHERE.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

**QUARK**

CHECK VALIDITY.

**STUDENTs**

JUMP UP THOSE ENERGY  
LEVELS!

BUMP OUT SOME ENDLESS  
CREDENTIALS!

*(LEPTON eyes STUDENTs.)*

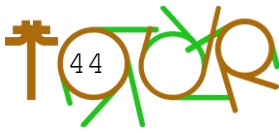
**QUARK**

ASSUME MY MOTIVE.  
FIRST ORDER NOTED.

**STUDENTs**

MOTIVATION.  
MAKE ASSUMPTIONS.  
NATURAL EQUATIONS.  
DIRECT NOTATIONS.

*(QUARK disorderly eyes STUDENTs.)*



**QUARK** (cont.)

FRESH SCHOLARS UNVEILED.

SURVEILLANCE.

SERVE VALENCE.

**STUDENTs** (cont.)

FRESH GENERATIONS.

INFORMATION.

OBSERVATION.

SHELLED ELECTRONS!

**LEPTON**

TEACHING ASSISTANT.

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

THESE STUDENTS

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

SUCK ENERGY

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

OUT OF YOU.

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**QUARK**

STATE, I'M FAMILIAR.

**STUDENTs**

THIS MIGHT BE A  
STUPID QUESTION.

*(QUARK coalesces STUDENTs.)*

**QUARK**

CONVECTION, IT'S CHILL.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**QUARK**

OPTICAL, LOOKS GOOD.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**QUARK**

BASICALLY, I'M HIP.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

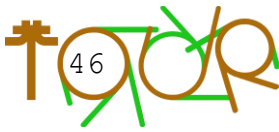
**QUARK**

I'LL ADDRESS ALL QUESTIONS!

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.



**LEPTON**

SO FAILING. ASK IF

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

QUESTIONS 'RISE BRIEFLY

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

THEN YOU SNUB. NO

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

NEED VALIDATION.

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

*(Becoming rigid.)*

*(ATOM struts in.)*

**ATOM**

STEAL 'LECTRICITY. I'LL  
SURVEIL HERE. HIGHER  
LEVEL. HOW'S THAT GOING?

**STUDENTs**

EXACTLY WHAT IS SPIN?  
QUARK?

*(QUARK feels flabbergasted.)*

**QUARK**

SPIN IS AN ODD MAGNETIC PROPERTY ENCOMPASSING QUANTUM  
'LECTROMAGNETISM THEO— REALLY, WE SHOULD 'DRESS THE  
MATTER HERE.

**ATOM**

YOU CAN'T SPIN THIS.  
YOU CAN'T SPIN THIS.  
YOU CAN'T SPIN THIS.  
YOU CAN'T SPIN THIS.

**STUDENTs**

EXACTLY WHAT IS SPIN?  
T A?

*(STUDENTs wobble.)*

**QUARK**

I NEED TO EIGENSTATE UP-DOWN OBSERVABLE. YOU'RE  
ALWAYS IN MY SPACE?

*(Confronting ATOM.)*

**ATOM**

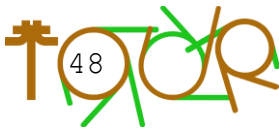
YOU CAN'T SPIN THIS.  
YOU CAN'T SPIN THIS.  
NEED TO MENTION.  
YOU CAN'T SPIN US.

**STUDENTs**

EXACTLY WHAT IS SPIN?  
TEACHER?

**QUARK**

SPACETIME FABRICATION BRINGS ABOUT LIMITATIONS, SO  
LET'S



**ATOM**

YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.

**STUDENTs**

WHAT DO YOU HAVE IN  
CORE FOR US?

*(QUARK herds STUDENTs together.)*

**QUARK**

MOVE TO STATE FORMATION, MIXED VALENCE WITHIN  
FEMTOSECONDS, HEAR

**ATOM**

YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.

**STUDENTs**

WHAT DO YOU HAVE IN  
ACCORDANCE?

**QUARK**

ALL THAT, QUASI-BORONS? AN EXAMINATION FILLED

**ATOM**

YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.  
YOU CAN'T SPIN US.

**STUDENTs**

WHAT DO YOU HAVE  
THAT'LL SHOCK OUR  
CORE?

*(QUARK hands out the scantrons to STUDENTs.)*

**QUARK**

WITH HOLES IN SCANTRONS.



**ATOM**

YOU CAN'T SPIN US.  
 YOU CAN'T SPIN US.  
 IN THEORY THOUGH,  
 PLEASE SHARE WITH US.

**STUDENTs**

WHAT DO YOU EXPECT  
 FROM NUCLEI?

*(ATOM orbits QUARK.)*

**QUARK**

THINK OF INSIDE-OUTSIDE YOUR MATTERS, YOU'LL FIGURE  
 OUT YOUR CHARGE AND YOUR CONFIGURATION. THERE'S  
 SOMETHING TO BEING NOBLE, GUESS.

**ATOM**

PLEASE SHARE WITH US.  
 PLEASE SHARE WITH US.  
 PLEASE SHARE WITH US.  
 PLEASE SHARE WITH US.

**STUDENTs**

WILL THIS MOMENTUM BE.  
 CURVED?  
 FAILURE?

**QUARK**

I'LL STOP WITH SURVEILLANCE WHEN THIS BASIC UNIT JUST  
 QUILTS TAKING ENERGY!

*(Grabbing ahold of ATOM.)*

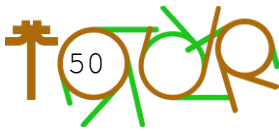
**ATOM**

PLEASE SHARE WITH US.  
 PLEASE SHARE WITH US.  
 PLEASE SHARE WITH US.  
 I SERVE VALENCE.

**STUDENTs**

WILL THIS MOMENTUM BE  
 CURVED?  
 VALENCE?

*(ATOM snatches the paperwork from QUARK.  
 They push off of her.)*



**ATOM** (cont.)

ENERGIES FOR  
THE VALENCE!

**STUDENTS** (cont.)

CONTRIBUTION.  
CONTRIBUTION.

*(ATOM passes around the cheat sheets.)*

IF YOU  
ARE HIGHER  
LEVEL  
THOUGH FAILURE,  
THEY CAN TOO!

CONTRIBUTION.  
CONTRIBUTION.  
CONTRIBUTION.  
CONTRIBUTION.  
CONTRIBUTION.  
CONTRIBUTION.

*(LEPTON holds back QUARK.)*

**LEPTON**

THEY'LL GET ELECTRONS.

*(STUDENTS pass around scantrons.)*

**STUDENTS**

DISTRIBUTION OF THE SCANTRONS.

**LEPTON**

THEY'LL GROUP THE ELEMENTS.

*(STUDENTS group together.)*

**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL CONFIGURATE.

*(STUDENTs form circles.)*

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL COME OUT THEIR SHELLS.

*(STUDENTs move from one circle to another.)*

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL FIND OUT THEY'RE VALIANT.

*(STUDENTs orbit either LEPTON and QUARK,  
and/or ATOM.)*

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

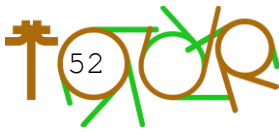
NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

QUARK,  
ASSISTANT,  
YOU'LL NOT  
FAIL.  
QUARK,  
ASSURANCE,  
YOU NEED  
NO VAL-

**STUDENTs**

MOTIVATION.  
MAKE ASSUMPTIONS.  
NATURAL EQUATIONS.  
DIRECT NOTATIONS.  
GENERATIONS.  
INFORMATION.  
OBSERVATION.  
SHELLED ELECTRONS!



*(QUARK openly dismisses LEPTON.)*

*(LEPTON motions STUDENTs to turn in their papers to QUARK.)*

**LEPTON**

DON'T TAKE IT.

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

*(Handing the papers to QUARK.)*

*(QUARK snubs STUDENTs.)*

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

**LEPTON**

WRONG ENERGY LEVEL.

*(Gathering all the papers from STUDENTs.)*

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.  
VALENCE ELECTRONS.                      VALIDATION.

**LEPTON**

VALIDITY.

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

## LEPTON

THERE'S

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## LEPTON

NO NEED SEARCHING

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

## LEPTON

VALIDITY.

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## LEPTON

THE HEART

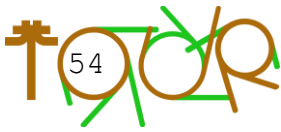
## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## LEPTON

OF PHYSICS



**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

PUMPS

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

VALIDITY.

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

NEED

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

NO VALIDATION.

*(Dumping the paperwork into QUARK's arms.)*

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

JUMP!

BUMP!