

# DIRECTOR'S SCRIPT

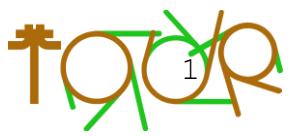


Book, Music, and Lyrics  
DAVID QUANG PHAM

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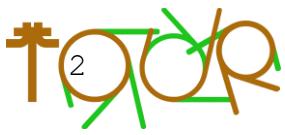
TOUR

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A Musical

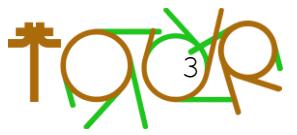
by

David Quang Pham



## THANK YOU

Name	Role
Marcos "Danny" Caballero	Professor of Electromagnetism
Montana Earegood	Copyeditor
Ruthann Gregory	Physicist
Micealaya Moses	Dramaturg

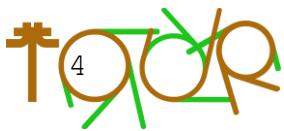


## SYNOPSIS

What discoveries can be made when matters collide? Plenty of matters are missed in these life-changing impacts but coming around is possible with atom smashers. Set in the University to the Accelerator, *Tour* is a musical drama that tells the story of four physicists – Quark, Лептониа, Boson, and Atom – interacting in their field while taking on the ramifications when crossing each other's lines.

Quark enters the University as a student, dreaming of becoming a physicist. Professor Boson connects her to magnetism. However, their opposite charges never attract but an instance of perhaps, identical. Лептониа takes charge of Quark's livelihood each time Quark gets cut down by Boson; he has the power to fail anyone and even defund institutions.

With the introduction of this musical thesis, Quark acquires the circuits to bring unharnessed energy to the Accelerator. During the act that follows, Quark fulfills what the Accelerator is destined to accomplish. The success ends when Quark reaches supersymmetry during a particle accelerator "accident."



## CHARACTER BREAKDOWN

Character	Vocal Range	Gender	Age
<u>QUARK</u> E A physicist.	Mezzo-Soprano – Soprano	Woman	Adult
<u>ЛЕПТОНИЯ</u> (leptonya) A doctoral advisor.	Alto – Mezzo-Soprano	Woman	Adult
<u>BOSON</u> GAUGE A physics professor.	Bass – Baritone	Man	Adult
<u>ATOM</u> A right-hand scientist that makes up for everything.	Tenor – Alto	Any	Adult

### Ensemble

- |             |                       |               |
|-------------|-----------------------|---------------|
| - STUDENTS  | - RESEARCH ASSISTANTS | - PROFESSORS  |
| - ENGINEERS | - POLITICIANS         | - TECHNICIANS |

## NOTES ON ATTIRE & COSMETICS

Performer portraying Quark: In the emergence era of co-op research, she would fit in with generally a blouse, a belted skirt, and close-toed heels. She eventually lugs around her sentimental green helmet, attached to a lanyard around her neck.

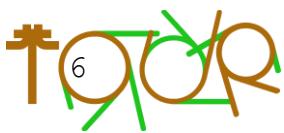
Performer portraying Лептония: She soils her science gear when she is working, but when she is not, she wears much more dull clothes. She dresses up as a rancher near the Desertron. She wears her orange helmet at the Accelerator.

Performer portraying Boson: He is suited to take on tenures. To demonstrate his reign, he is well-dressed for the Accelerator. He is a photonic figure, therefore brightening up the place.

Performers portraying engineers/technicians: The orange clothes and safety gear are for physics.

## MUSICAL NUMBERS

<b>#</b>	<b>Title</b>	<b>Character(s)</b>
1.	Exchange Particle	QUARK ATOM
2.	Torsion	QUARK ЛЕПТОНИА ATOM
3.	Available Energy	QUARK
4.a.	Hard Run	QUARK BOSON ATOM students
5.	Entanglement	QUARK BOSON
6.	Crossing Field Lines	QUARK BOSON
7.	Centration	QUARK BOSON research assistants
8.	G	QUARK ЛЕПТОНИА ATOM professors
9.	Fuse	QUARK
10.	Valence	QUARK ЛЕПТОНИА ATOM students
11.	Effusion	QUARK
12.a.	Super Collide	QUARK ЛЕПТОНИА engineers
13.a.	Slepton	QUARK BOSON ATOM politicians
13.	Backscatter	QUARK ЛЕПТОНИА
14.	Electroforming	QUARK ATOM engineers
15.a.	Preon	QUARK ЛЕПТОНИА
16.	Bring the Conductivity	QUARK ЛЕПТОНИА BOSON ATOM technicians
17.	Hadron	QUARK ЛЕПТОНИА BOSON ATOM technicians
18.	Synchrotron: Magnet-Guided	QUARK BOSON ATOM technicians
19.	Meson Decay	QUARK ATOM technicians
20.	Hypercharge	QUARK ЛЕПТОНИА technicians
21.	Isospin	QUARK BOSON
22.	Pion	QUARK
23.a.	Catch Electrons	QUARK ЛЕПТОНИА BOSON technicians
24.	Photonic Parity	ЛЕПТОНИА BOSON ATOM technicians
25.	Supersymmetry	QUARK ЛЕПТОНИА
26.	Beyond Baryons	QUARK ЛЕПТОНИА particles
4b.	Hard Run (bow)	COMPANY

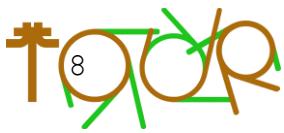


## SCENES & SET DESIGNS

Scene   Page	Location	SET   props
I i 8	University	PARTICLE BOARD displays a schedule, holds a box of tacks DESK holds horseshoe magnets(4+) with a note stuck to a magnet, a field line diagram, a packet, a pen, a textbook, a decorative box hiding a magnet
I ii 15	Laboratory	PARTICLE BOARD displays a field line diagram DESK holds horseshoe magnets(4+), a note stuck to a magnet, a field line diagram, a packet, a pen, a textbook, a decorative box hiding a magnet
I iii 21	Office	PARTICLE BOARD displays a field line diagram DESK holds a field line diagram, a packet, a pen, a textbook, a decorative box hiding a magnet
I iv 29	Lecture Hall	packets
I v 43	Desertron	operator's control
I vi 51	Debate Chamber	operator's control cash
I vii 61	Magnet Factory	WORKSTATIONS hold magnets, metals, a light bulb, wire form pen
II i 68	Accelerator	ACCELERATOR BARRIER CHAIRS CHALKBOARD fog machine chalkboard eraser QUARK's id



ACT I



## 1. EXCHANGE PARTICLE

SCENE i

[University]

[A particle board displays a schedule, holds a box of tacks, and hides a desk.]

(ATOM staffs himself by the particle board.)

(QUARK wanders in.)

**QUARK**

ENDED UP IN UNIVERS-TY? ESTABLISH. MEANT  
MAY I JOIN A TOURING CIRCUIT? ELECTRIC-. THE  
LABS, DO THEY BEHOLD AND FORESEE? ESCAPED IONS.

(ATOM sees through QUARK. He dismisses her.)

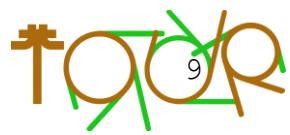
WHAT AM I, PART OF? COURSES FULL?

(Humbling herself.)

EXCHANGE.  
IT'S NOT WHO I AM.  
THE REAL ME.  
NOT BEST IN SCIENCE.  
I FORCED MYSELF.  
GIVE MY ALL TO PHYSICS.

(Giving up.)

MY PARTING GOALS.



**ATOM**

QUARK.

*(Scanning the schedule.)*

E.

*(ATOM rips the schedule off the particle board. He hands the schedule to QUARK.)*

**QUARK**

SCHEDULE AT HAND, I

*(Reading the schedule.)*

GOT IN GAUGE COMMA BOSON!

PUPIL UNDER CHILD PRODIGY! HE WHO MAKES LIGHT  
OF ALL EXPER-MENTS. ENLIGHTENED. NOT SO LONG 'GO  
THAT ATOMS WERE BLOWING MY MIND...

*(ATOM departs.)*

*(QUARK aches.)*

PART OF YOU YANKED ME WITH THIS EX-.

*(Ripping apart and dropping the schedule.)*

CHANGING,  
DEGREE'S  
SO COLD.

*(Nearing the particle board.)*

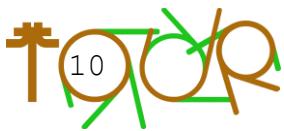
THIS FIELD'S  
HEATED.

*(Grabbing a tack from the box.)*

CUTTHROAT.

*(Hastily putting the tack back in the box.  
She spills the tacks onto the floor.)*

ACA-. DAMN  
ME. UP.



## **QUARK** (cont.)

*(Kneeling. She sensitively picks up the tacks.)*

BOTTOM.

TOP. DOWN.

STRANGE. CHARM.

*(Grabbing the box.)*

STANDARD,

MODELLED

STUDENT.

ACADEMIA.

*(Churning the tacks in her hand. She boldly discards the box. She innovatively pins the tacks onto the particle board. She suddenly feels wedged.)*

STATICS CONSERVE JUST WELL-CONNECTED THEORETICAL PHYSICISTS.

*(Observing the tacks. She moves herself around the space, relative to the formation of the tacks on the particle board.)*

BUT DYNAMICS,

TORQUE ANGLING UNCONNECTED ME TO BEST ALL PHYSICISTS!  
GAIN, LOSE, ELECT ON BEING EXPERIMENTAL!

*(Picking up the schedule. She attaches the schedule to the particle board.)*

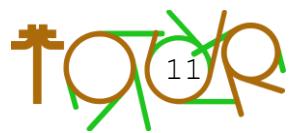
MAY NOT GET TO KNOW, BUT IT'LL FLOW, EXPLANATIONS.  
CAN'T WAIT FOR BOSON. WHAT'S IN CORE? HOW'S HIS WORKLOAD?

IDEAS COME SO FAR. MATTERS, THEY WILL COME TO ME.  
PARTICLE BOARD, THANKS FOR THIS EXCHANGE.

*(Knocking on the particle board. She promptly gets a move on.)*

## **2. TORSION**

*(ЛЕПТОНИА strolls in.)*



(*QUARK collides into ЛЕПТОНИА.*)

(*ЛЕПТОНИА twists herself into a pretzel.*)

**ЛЕПТОНИА**

ДЕРЬМО (der'mo). TORSION.

(*QUARK helps ЛЕПТОНИА up.*)

TWISTED СУКА (súka).

**QUARK**

MEAN FREE PATH.

MEANT NO HARM.

**ЛЕПТОНИА**

WHY THE RUSHING?

(*QUARK tries to flee.*)

(*ЛЕПТОНИА grabs ahold of QUARK.*)

FASTER THAN LIGHT?

**QUARK**

DYNAMICS.

KEEP MOVING.

TORSIONS, TURNS.

BE LIKE YOU.

(*ЛЕПТОНИА releases QUARK.*)



## ЛЕПТОНИА

YOU UNDERGRADS.  
THERE'S NO TORSION  
MORE TORTUROUS  
THAN MATTERS THAT  
TRY TO FIT IN.

*(Motioning towards herself.)*

SOON CROWNED DOCT-RAL.

*(Directing QUARK to a destination.)*

LABS, THEY'RE A BLAST.

*(Adjusting herself.)*

MUST NOT DECAY.  
THE NAME'S ЛЕПТОНИА.

*(Hurrying off.)*

### 3. AVAILABLE ENERGY

#### QUARK

AVAILING MASTER  
ENERGIZED THIS NEWCOMER.  
WE SHARED A DEVOTION, CAREER IN PHYSICS.  
DISTRIBUTION, FIXED  
AMOUNT OF ENDURANCE 'MONGST  
IDENTICAL PERSONS. ACTIVATE KINEMATICS!

*(Disorderly moving about.)*

FREE AVAIL-BLE ENERGY!  
I'LL ENTAIL THE MECHANICS!  
I'LL UPSCALE THE MAGNETICS!  
I'LL UNVEIL THE DYNAMICS!  
I'LL AVAIL IN ALL PHYSICS!  
I'LL PREVAIL AS PHYSICIST!  
FREE KINETIC ENERGY!  
NOT DERAILED TRAINING!

*(Focusing her energy.)*

GET LOST IN THE CALCULUS!

(*QUARK rigidly moves about.*)

**QUARK** (cont.)

FREE AVAIL-BLE ENERGY!  
I'LL CURTAIL ALL THE LIMITS!  
I'LL ASSAIL DERIVATIVES!  
I'LL DETAIL THE STATISTICS!  
I'LL AVAIL ALL THINGS PHYSICS!  
I'LL PREVAIL AS PHYSICIST!  
FREE KINETIC ENERGY!  
AND NOT FAIL SPIRIT!

(*Condensing her energy.*)

BE FLUID IN MECHANICS!

(*Smoothly moving about.*)

FREE AVAIL-BLE ENERGY!  
I'LL INHALE AIR WHO ARE QUICK!  
I'LL EXHALE ALL THAT'S HOMESICK!  
I'LL ENGAIL THEM WITH MY WITS!  
I'LL AVAIL THOSE IN PHYSICS!  
I'LL PREVAIL AS PHYSICIST!  
FREE KINETIC ENERGY!

(*ATOM and STUDENTS enter.*)

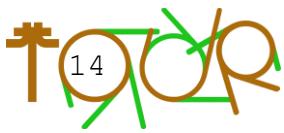
(*QUARK stops.*)

DON'T BLACKMAIL SCEPTICS.

(*BOSON enters. He flips the particle board.*)

[*The particle board displays a field line diagram.*]

(*QUARK adjusts herself.*)



## **QUARK** (cont.)

ENTROPIC TIMES THEN  
CHAOS. PUT WORK AS OPTIME.  
UNIT IS ALWAYS TIME. A DEGRADATION,  
'LECTROSTATICS CLASS.  
AVOID THAT COLLISION COURSE.  
COLLAPSE THROUGH SYNERGY. ENERGIZE POTENTIAL.

4. HARD RUN

SCENE ii

[*Laboratory*]

(*QUARK, ATOM, and STUDENTS gather around BOSON and prepare for the lecture.*)

(*BOSON paces.*)

[*An explosion audibly rings.*]

(*QUARK solely hears the explosion.*)

**STUDENT**

NEUTRONS !

(*BOSON dismisses the answer.*)

**STUDENT**

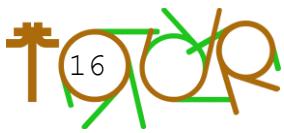
PHONONS !

(*BOSON dismisses the answer.*)

**STUDENT**

MUONS !

(*BOSON dismisses the answer.*)



**STUDENT**

BOSON?

*(BOSON seems taken off guard.)*

**ATOM**

BORONS... THEORY!

*(STUDENTS ponder.)*

**ATOM**

THAT'S IT!

**STUDENTS**

*(Hysterically laughing.)*

*(BOSON feels disappointed.)*

*(QUARK sticks out.)*

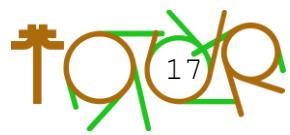
*(STUDENTS ponder.)*

**QUARK**

POS-TIVE. NEG-TIVE.

**BOSON**

TOUR.



**BOSON**

LET IT FLOW.  
DO BUILD YOUR NEST.  
DO THEY ATTRACT  
ATTENTION

**STUDENTs**

'LECTRICITY!  
WITH 'LECTRONICS!  
SO MAGNETIC!

**QUARK**

YOU WOULD LET ME  
BUILD MYSELF IN YOUR  
LABOR-TORY?

**STUDENTs**

IT'S EXCLUSIVE!  
NO EXPER-ENCE!  
SESSION IS FULL!

(*BOSON nods. He pushes the board out, revealing horseshoe magnets on a desk.*)

**BOSON**

PERFORM A CONTROLLED EXPER-MENT. FORCE. ATTRACTING.  
USING FERROMAGNETS. PERMANENT DIPOLES. REMOVE FIELDS  
OUTSIDE. DISCIPLES. ADVICE. DON'T REDUCE TO ZERO.  
SPON-TANE-OUS RAC-TION. TRY COBALT, YOUR SAKE.  
ELECTRONS. UNPAIRED. COVALENT.

**STUDENTs**

TAU!

(*Scattering. They each grab a magnet.*)

**STUDENT**

(*Pointing a magnet to another STUDENT.*)

COMPASS FACES...

**STUDENTs**

ATTRACTION HERE!

(*A different STUDENT directs their magnet to another STUDENT.*)



**STUDENT**

YOUR FRIDGE RUNNING?

**STUDENTS**

HA, CAUSE MAGNETS!

**ATOM**

*(Reaching for another STUDENT.)*

YOU SEE, MAGNATE.

**STUDENTS**

STILL THE BORON!

*(BOSON takes two magnets. He extends one to QUARK.)*

**BOSON**

PARAMAGNET?

**QUARK**

I WOULD BE HONOURED.

*(Accepting the magnet.)*

**STUDENTS**

OH INDUCTANCE!

**QUARK**

SAY, WE'RE 'TRACTED.

**STUDENTS**

A LITTLE FORCED!

**BOSON**

REPEL!

(*Each pair of STUDENTS distance themselves, forming magnetic formations. In hand, they dance with magnets facing each other.*)

(*ЛЕПТОНИЯ passes the experiment. She appears enjoyably disheveled.*)

(*QUARK seems distracted by ЛЕПТОНИЯ. She increasingly repels away from BOSON.*)

(*Their experiment concludes.*)

**4a. HARD RUN (reprise)**

(*BOSON notices the note attached to his magnet. He detaches it. He reads it.*)

**BOSON**

I HAVE BEEN CHOSEN, DIRECTOR OF THE ACCELERATOR...

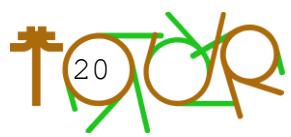
**STUDENTS**

PLEASE DO NOT GO!  
WE'LL ALL MISS YOU.  
CONDUCTIVITIES.

(*BOSON remains silent.*)

PROFESSOR'S SPEECHLESS.  
THINK IT OVER!

(*BOSON waves STUDENTS off.*)



STUDENTs

WE WILL REPEL!

(*Departing.*)

## 5. ENTANGLEMENT

SCENE iv

[Office]

(QUARK hands the thesis to BOSON.)

**BOSON**

(Reading the thesis.)

ÉTUDE THÉORIQUES DES MAGNÉTIQUE MOLÉCULAIRES (e-tude  
there-reek des mag-ne-teak mo-le-cu-lairs).

(Setting aside the thesis.)

FLUXING DOWN AN UNDERGRADUATE THESIS?

(QUARK nods.)

LEFT COLLEGE IN FRACTION OF TIME BUT STILL PROUD,  
YOU JUST MAY GET HERE  
IN NO TIME.

ARE YOU INTO QUANTUM ENTANGLEMENT?  
STILL MAGNETIC EXCITATION TO BE FOUND.  
YOU GIVEN PICKING UP PHOTONS FOR A CHANCE?  
A COUPLED QUBITS?  
LIL HIGH ENERGY.

(Grabbing a magnet. He points the magnet at  
QUARK. He chuckles. He sets down the magnet.)

MAGNETIC, BARS, MOMENTS.

(Shaking QUARK.)

WHEN WE'RE YOUNG, MAKING WAVES.  
PART-CLE HORIZON'S A FLASH,

(Releasing QUARK.)



22

**BOSON** (cont.)

REACH ENLIGHTENMENT.

(*QUARK distances.*)

JUST A PARTICLE ROAMING IN A VACUUM.  
FOUND A PART OF ME AS RAW AND RESOURCEFUL.  
MAGNET-FOCUSED AND COME ON PARTICLE BOARD.

(*Attaching particle accelerator blueprints  
to the particle board.*)

EXCEL IN THE ACCELERATOR.

(*Forcing QUARK to attach the field line  
diagram to the particle board.*)

RESEARCH COLLAB-RATION.  
INDEPENDENT SCHOLAR.

(*Shrugging off.*)

VACUUM, THERE'S NOTHING TO PROVE—

(*Switching topics.*)

'VIDE THAT STEM GRANTS FOR YOU.  
DISCOVERIES. SYMMETRY.  
THE JOURNEYS. QUITE LOOPY.

(*QUARK eyes the field line diagram.*)

(*BOSON pulls out the decorative box from the  
desk. He gets on one knee in front of QUARK.*)

FIELD THEORIES PROPOSED, WILL YOU  
(*Opening the box, revealing a magnet.*)  
QUANTUM ENTANGLE ME?

## 6. CROSSING FIELD LINES

(*QUARK may express mixed feelings.*)

**QUARK**

THE FIELD LINES HERE, CROSSED.

(*BOSON looks through the thesis.*)

**BOSON**

OP-SITE CHARGES REPEL.

**QUARK**

THAT WAS THE RESULT OF THE EXPERIMENT.

(*BOSON marks the thesis.*)

(*QUARK builds rage.*)

(*BOSON builds remorse.*)

**BOSON**

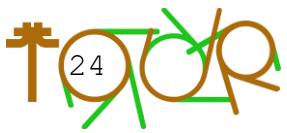
THE OPPOSITES SHOULD ALWAYS ATTRACT-ACT.

(*Pleading to an unmoving QUARK.*)

REACT. CONNECT. YOU ARE NOTHING BUT STEEL. MAGNET. I AM. NEG-TIVE ENDS POSITIVE.

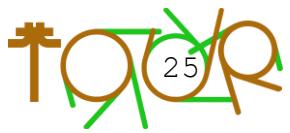
(*Falling in shambles.*)

END TOUR. END TOUR. END TOUR. END TOUR. END TOUR. END TOUR. END TOUR.



## QUARK

THE FIELD LINES SHOULD NEVER BE CROSSED!



## 7. CENTRATION

(*BOSON throws a physics packet at QUARK.*)

**BOSON**

TENURE AS PROFESSOR ENDS LATER. EVERY LECTURE,  
LABOR-TORY, COLLOQUIUM. YOUR SCHOOLING WILL FEEL LIKE  
TEN YEARS.

(*QUARK picks up the packet.*)

COULD YOU CONCENTRATE?  
STUDENT.

(*QUARK begins solving.*)

OH, YOU INFUR-ATE.  
R. A'S.  
DETERIORATE.  
CONCEN-

(*RESEARCH ASSISTANTS march in, holding packets.*)

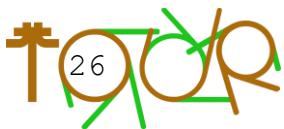
**BOSON** **RESEARCH ASSISTANTS**  
TRATE.

(*RESEARCH ASSISTANTS stand by BOSON.*)

**RESEARCH ASSISTANTS**

IN COMES INTERACTION.  
OH THE NUCLEATION.  
A PLASMIC COLLISION.

(*Singularly throwing a packet at QUARK.*)



## RESEARCH ASSISTANTS (cont.)

IN NAME OF CENTRATION.  
WHY THE INFURATION?  
LEADS TO DETER-RATION.  
CONCENTRATE.

### BOSON

WEAK.  
BUT YOUR INTERACTION HAS ALWAYS IMPACTED ME.  
FIRM NUCLEATION.  
COUPLED.  
QUARK-GLUON PLASMA.  
QUANTA.  
DEFY CENTRATION.

### QUARK

FIELD LINES CROSS  
ONLY IF I DROP THE QUALITY OF MY DATA.  
YOUR INHIBITION'S  
ERROR.  
THIS OLIGOMER'S  
FLUID.

### BOSON

DON'T CONCENTRATE NOW.  
YOU LEARN QUICK.  
THE MATTER BETWEEN US, THE ONLY THING YOU'LL EVER  
CROSS.  
*OLIGOMERS*, NO UNITS WILL EVER BE REPEATED.  
MASTER EQUATION.

*(RESEARCH ASSISTANTS head in various directions.)*

**BOSON** (cont.)

QUANTUM  
ARE AGGREGATION.  
OUTLIER!

(*Pointing to QUARK.*)

APPLY CENTRATION.

(*RESEARCH ASSISTANTS surround QUARK.*)

CONCEN-

**BOSON**                           **RESEARCH ASSISTANTS**  
RATE.

(*RESEARCH ASSISTANTS throw all the packets at QUARK.*)

**RESEARCH ASSISTANTS**  
ALL THE FRAGMENTATION.  
NOT A GLOBAL FITTING.  
JUST SCALING EXPONENT.  
HAVE RESPECT FOR RATE LAWS.

(*QUARK kneels.*)

QUANTUM INDETERMIN-C'.  
PRIMOR-DAL BEHAVIOURS.  
CONCENTRATE.

(*BOSON snatches the packet from QUARK.*)

CONCENTRATION.  
CAN THINK RIGHT?



(*BOSON marks the packet.*)

CENTRATE.

(*BOSON hands the packet to QUARK.*)

CONCENTRATION.

CAN YOU BELIEVE?

(*QUARK brokenheartedly reads the packet.*)

CENTRATE.

(*BOSON grabs a book.*)

CONCENTRATION.

CAN YOU FEEL IT?

(*BOSON throws the book in QUARK's face.*)

(*QUARK falls back, unconscious.*)

CENTRATE.

CONCENTRATION.

(*Clearing the office.*)

CAN'T

CONCENTRATE.

CENTRATE.

(*BOSON and RESEARCH ASSISTANTS march off.*)

## 8 . G

SCENE v

*[Lecture Hall]*

(ATOM and PROFESSORS wander in. They pick up  
and read the packets.)

**ATOM**

GRADES DO NOT FIT THE CURVATURE, QUARK.

**PROFESSOR**

I Q IS LEFT TO BE TRULY DESIRED.

**ATOM/PROFESSOR**

SUCCESS IS THAT, NOT WITHIN YOUR VERY REACH.

**ATOM/PROFESSOR**

B'S STAY IN TRASH BINS OF HIST-RY.

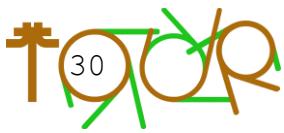
**ATOM/PROFESSOR**

LENS, THERE IS NONE THAT WE WILL EVER SEE THROUGH.

**ATOM/PROFESSOR**

WHAT THE F'S, YOU MIGHT AS WELL JUST KILL YOURSELF.

*(QUARK sits up.)*



**ATOM**

GRAV-TY.

**ATOM**

**PROFESSORs**

FORCE YOU'LL BRING IS G.

*(Leveling with QUARK.)*

GRAD PROGRAMS ARE EXCLUSIVE.

DON'T HAVE WHAT IT TAKES FOR A MASTER'S.

*(Gathering the packets.)*

*(ЛЕПТОНИА rushes in.)*

**ЛЕПТОНИА**

БЛИН (blin).

I'M LATE, SORRY, PROFESS-...

*(Noticing QUARK.)*

WHAT A STRANGE DAY TO SELECT DOCT-RATE CANDIDATES.

*(Heading to QUARK.)*

CHARMING MATTERS WITHIN YOU.

FAMILIARITY.

*(Recognizing QUARK.)*

YOU MADE ME MISS IT!

*(Raising QUARK.)*

YOU SAVED ME THE TROUBLE OF HAVING MISSED OUT ON AN ATOM SMASHING ACCIDENT.

*(Embracing QUARK.)*

*(ATOM motions for ЛЕПТОНИА to not disclose that information.)*

**ATOM**

AFFLICT.

**ATOM**

FORCE CLASSIFIED, JEEZ.  
 BRIGHT ADVISOR, ЛЕПТОНИА.  
 FIND ONE UNBENT.  
 NOT THIS DELINQUENT.

**PROFESSORS**

**ЛЕПТОНИА**

I KNOW G-FORCE BEING

**ATOM**

**PROFESSORS**

YOU'LL KNOW G-FORCE.

**ATOM/PROFESSOR**

A FORMER DOCTORAL  
 CANDIDATE.

A BURDEN SO PECUL-AR.  
 WEAK.

**ATOM/PROFESSOR**

PUPIL BRINGS LONG  
 DAYS, SHORT NIGHTS,  
 ATOMIC WEEKS.

**ATOM/PROFESSOR**

PHYSICS, CLASSIC, QUANTUM,  
 BASIC, NEVER SLEEP.

EQUATIONS, UNFIT SO  
 YOU HAVE TO TWEAK.

(ЛЕПТОНИА takes the packet from ATOM. She  
 reads the packet.)

**ЛЕПТОНИА**

AT THE VERY LEAST, SHE HAS PRINCIPLED HALF SPINS!

**ATOM**

SPIN IT.

**PROFESSORS**

FLUX, GIVEN NONE.



**PROFESSOR**

HER VARIABLE IS JUST A MASS.

**ЛЕПТОНИА**

CLASSIFICATION, YOU'VE PUT  
ALL US IN, NO MORE, NO  
LESS, INTEGERS, BUT SHE  
HAS ELECTRICITY.

**ATOM**

YOU KNOW THAT I KNOW  
THAT THERE'S LOTS TO  
SURPASS.

**PROFESSOR**

METHODS, NONE  
INTEGRAL ITS ANGLING  
FOR.

(ЛЕПТОНИА returns the packet to ATOM.)

**ATOM**

GRAV-TY.

**ЛЕПТОНИА**

FELT I FORCE THESE G'S.

**PROFESSORS**

FORCE YOU'LL FEEL ARE  
G'S.

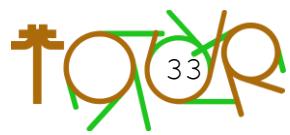
(ЛЕПТОНИА takes QUARK out for a spin.)

(QUARK flounders around.)

(ATOM and PROFESSORS humbly depart.)

**ЛЕПТОНИА**

YOU SURE NEED SOME ANGULAR MOMENTUM IN YOU.  
IDEALLY, COMMIT TO OCCUPY THIS STATE.



(*QUARK seems hesitant.*)

**ЛЕПТОНИА** (cont.)

MATTERS THAT ARE PARTICLES WITHIN YOU.

**ATOM**

**PROFESSORs**

OCCUPY STATE!

**ЛЕПТОНИА**

NAME?

(*QUARK whispers into ЛЕПТОНИА's ear.*)

QUARK?

SEEMS TO HAVE A LACK OF SPIN.

FIRM.

I AM IN ANY CIRCLES, ORBITALS.

ДРУГ (drug).

YOU'RE A FORCE TO BE WEIGHTED UPON THEE!

(*Stopping the momentum.*)

STATE. HAVE TO SPIN TO!

(*Spinning off.*)

#### 9. FUSE

**QUARK**

SO CONFUSED.

REFUSE.

DIFFUSE.

IN-...

FUSE.

SO ELECTRIFYING!

NOW IS THE PERFECT TIMING.

YET, THE WOUND HAS LEFT ME STATIC.

**QUARK** (cont.)

THUNDER LATER!

CHARGE YOURSELF TO FLOW LIKE LIGHTNING!

*(Bringing herself back to reality.)*

THUNDER...

*(Shedding a tear.)*

NOTHING LIKE OVERCURRENT.

RAIN OFF EXCESS HEAT. END MY FIRE. ZAP.

*(Flinching.)*

BREAKER OUT OF ALL THE CURRENT. POSITIVE. NEGATIVE. SO IMBALANCED...

MUST KEEP FEELINGS GROUNDED... LIGHTNING...

SHORT CABLE THAT SUFFUSE.

SURE AM UNABLE TO

REFUSE... RESISTOR. LIMITER. CURRENTLY CAN'T.

CLIPPING. YOUR POWER RATING IS PROFUSE.

SWEATING. SENSORS DETECT MY HEART BEATING.

HERE GOES NOTHING. SOMETHING. ELECTRIFYING...

ZAP.

**10. VALENCE (work-in-progress)**

*(STUDENTS wander about.)*

**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION HAUL.

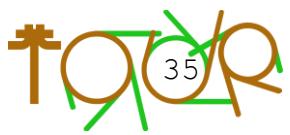
IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION HAUL.

*(ЛЕПТОНИЯ trudges in, carrying paperwork.)*

**QUARK**

OSCILLATIONS DOC!



**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION HAUL.

**QUARK**

ALT-NATING 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?

**ЛЕПТОНИА**

ALARM, INFREQUEN-.

**STUDENTs**

THIS EMISSION LEADS TO GROUND STATE.

THAT ADMISSION LEAVES YOU GROUNDED.

(ЛЕПТОНИА *hands a paper to QUARK.*)

ЛЕПТОНИА

SEE

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

ЛЕПТОНИА

TO INTEGRATION.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

ЛЕПТОНИА

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

D' RIVE  
ON.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

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

ЛЕПТОНИА

POSTULATE. A POS-.  
THINK SPHERE.

**QUARK**

CHECK VALIDITY.

**STUDENTs**

JUMP UP THOSE ENERGY  
LEVELS !

BUMP OUT SOME ENDLESS  
CREDENTIALS !

(ЛЕПТОНИА eyes STUDENTs.)

**QUARK**

ASSUME MY MOTIVE.

FIRST ORDER NOTED.

**STUDENTs**

MOTIVATION. MAKE  
ASSUMPTIONS.  
NATURAL EQUATIONS.  
DIRECT NOTATIONS.

(QUARK disorderly eyes STUDENTs.)

FRESH SCHOLARS UNVEILED.

SURVEILLANCE.  
SERVE VALENCE.

GENERATIONS.  
INFORMATION.  
OBSERVATION.  
SHELLED ELECTRONS !

**ЛЕПТОНИА**

TEACHING ASSISTANT

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**ЛЕПТОНИА**

THESE STUDENTS



**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**ЛЕПТОНИА**

SUCK ENERGY

**STUDENTs**

WE HAVE AN IMPORTANT QUESTION.

**ЛЕПТОНИА**

OUT OF YOU.

**QUARK**

STATE, I'M FAMILIAR.

**STUDENTs**

THIS MIGHT BE A  
STUPID QUESTION.

(*QUARK herds STUDENTs.*)

**QUARK**

CONVECTION, IT'S CHILL.

**STUDENTs**

GEE PROFESSOR ЛЕПТОНИА.

QUARK. QUARK.

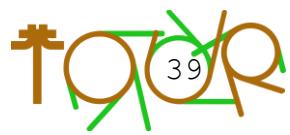
**QUARK**

OPTICAL, ALL GOOD.

**STUDENTs**

GEE PROFESSOR ЛЕПТОНИА.

QUARK. QUARK.



**QUARK**

BASIC-LY, I'M HIP.

**STUDENTs**

GEE PROFESSOR ЛЕПТОНИА.

QUARK. QUARK.

**QUARK**

I'LL ADDRESS ALL QUESTIONS!

**STUDENTs**

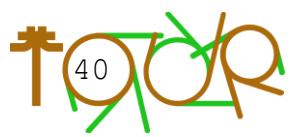
GEE PROFESSOR ЛЕПТОНИА.

QUARK. QUARK.

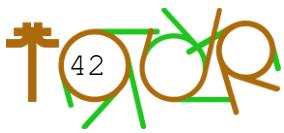
**ЛЕПТОНИА**

NEED NO VALIDATION.

{*The rest of the musical number, "Valence," covers the interplay between the exchange of electrons and QUARK trying to coalesce the students as a teaching assistant. It has a message of validation.*}



**†OK**  
41



## 11. EFFUSION (work-in-progress)

{The musical number, "Effusion," is where QUARK briefly blows off steam as a post-doc.}

**12. SUPER COLLIDE**

SCENE vi

*[Desertron]*

(ЛЕПТОНИА elegantly arrives, clad in a rancher's uniform.)

**ЛЕПТОНИА**

HOWDY. JOIN IN THE  
CIRCUIT!

*(Pointing in the distance.)*

HOME TO DESERTRON.  
HOPE, THESE RAYS  
HOLD IN. BEAMS AS FAR  
AS THE EYES CAN SEE  
ANY BEINGS TO  
EVER TOP YOUR DISSERTATION.

**QUARK**

NO LABS THERE YET. WHAT KIND OF ADVISING YOU DO TO  
LEAD US HERE?  
MY NAT-RAL PHYSICS HAS BEEN TRAINED TO GET YOU COFFEE.

*(ЛЕПТОНИА wanders off.)*

END UP WITH DESERTS.

*(Noticing ЛЕПТОНИА's disappearance.)*

NOT THE COURSE TO DESERT THIS DOCT-RATE!

*(Motioning to herself.)*

WELL, THERE IT GOES. MY CONCLUSION.  
EGO'S NEVER HYPERSENS-TIVE. THIS MIND STAYS DEHYDRATED.



(ЛЕПТОНИЯ *tiptoes in, sanding off an operator's control.*)

### **ЛЕПТОНИЯ**

HYPOT-SIS THAT THIS  
HEARTLAND OF  
INNOVATION BRINGS FREE  
ENERGY. WHERE NOT JUST  
MATTER 'XISTS, BUT THEY  
MATTER IN OUR LAWS.  
IN FACT, FORCE THESE  
WAVELENGTHFUL KEYS.

(*Handing the control to QUARK.*)

PROPEL PROTONS, SMASHING THEM INTO A GRAPHITE'S NUCLEI,  
PRODUCING NEUTRONS WITH PIONS, POS-TIVE NEG-TIVE,  
TAKING THOSE POSITIVITIES, FOCUSED IN A BEAM SO THEY'D.  
PARDON MY, DECAY.  
JUST THEORIZ...  
SUPER COLLIDE.

(*QUARK presses on the control.*)

BEAMS SUPER COLLIDE!

(*Preparing for the collision. When nothing happens, she takes over the control.*)

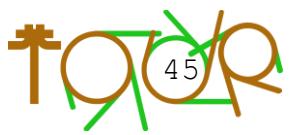
БЛЯДЬ (blyat).  
GIVE ME A MOMENT.  
HOLD UP UNIVERSE!

(*Trying to raise QUARK.*)

QUARK.

[*Particles collide.*]

BEHOLD THE DESERTRON!  
SUPERCONDUCTING SUPER COLLIDER!  
A SMASH.



[*Particles move along and around.*]

**QUARK**

STRANGE.  
FERM-ONS.  
MUONS.  
'TRINOS.  
GLUONS.  
CHARM.

**QUARK**

QUANTA.

**ENGINEERS**

RAY'S !

**QUARK**

(*Feeling matters.*)

'NERGY BUNDLES.

**QUARK**

STANDARD

**ENGINEERS**

FORCE !

**QUARK**

MODEL.

(*Growing antsy.*)

THEORIZED

**QUARK**

'NOUGH.

**ENGINEERS**

NOWT .

(*QUARK deactivates the control.*)



(ENGINEERS collide with one another.)

**ENGINEERs**

QUARK! JUST GOT YOURSELF ROLLING!  
SPIN PART-CLES AT HOME. GET PART-CLES IN TUBE.  
PASS BY NICE PROTONS. SAY HI TO 'LECTRONS.  
STEER MAGNETIC FIELDS. FEEL THE ENERGY.  
REACH THE SPEED OF LIGHT. LIGHTEN UP, WILL YA?

**ЛЕПТОНИА**

COL-

(ENGINEERS collide and gather.)

**ENGINEERs**

LIDE!  
SCIENTISTS, BUILDERS, PLAYERS, FRIENDS, AND  
FAM-LY ALL  
GATHER HERE THERE AROUND HUMAN'S GREATEST  
FEAT  
UNDER. EVER.

**ЛЕПТОНИА**

BUILD  
THE MACHINE THAT PURSUES ALL OF OUR DAYDREAMS.  
FULFILL UNSEEN WONDERS WITH PROTON BEAMS.  
DARK FIELD.

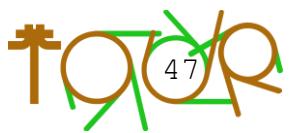
(Interacting and colliding.)

**ENGINEERs**

LUX-RY SCIENCE IN A DESERT!

(Interacting and colliding.)

(QUARK rein in the particles.)



**ЛЕПТОНИЯ**

AT DESERTRON.

**ENGINEERS**

ENERGY, CAN YOU FEEL  
IT, GAIN THE MAGNET!

**QUARK**

SUPERNAT-RAL.

REACH THE SPEED OF

**ЛЕПТОНИЯ**

CONDUCT YOURSELF.

LIGHT!

**QUARK**

SUPERVISION.

ANTI-QUARK MATTERS

**ЛЕПТОНИЯ**

COLLIDE OTHERS.

SUPER COL-

*(Setting QUARK on a collision course.)*

LIDE!

HER WAY OUT BARYONS! SUPER COLLIDE BEYOND!

SUPERCONDUCTIVITY MEDIUM

MODELLED!

SMASH THE PART-CLES TOGETHER FOR ENTIRE WORLD

RECORD AROUND FORTY TERA 'LECTRON

VOLTS!

*(Gathering around the control.)*

GOD PARTICLE BURIED RIGHT UNDER THE DESERTRON.

*(Expanding.)*

QUADRUPOLE LIGHTEN UP THE MOMENT. SUPER  
COLLIDER!

**12a. SUPER COLLIDE (reprise)**

(ENGINEERS exit.)

**ЛЕПТОНИЯ**

QUARK.

SUPER

CONDUCT YOURSELF, CANDIDATE.

JOB

INTERVIEW, I'VE GOT TO GO. IT'S MY COLLISION COURSE.

(Departing.)

**13. SLEPTON**

(QUARK redirects her attention to the control.)

(ATOM enters, protesting.)

**ATOM**

SCIENCE ENDING.

THEY'RE SHUTTING THE DESERTRON DOWN!

**QUARK**

QUIT LYING.

WHAT'S THE MATTER?

**ATOM**

INFER, ATOM.

I FIGURED EVERYTHING MATTERS!

**QUARK**

ATOM SHOULD STOP MAKING THINGS UP.  
WHEN THINGS SEEM TOO GOOD TO BE TRUE.  
JUST SLEEP ON IT, REST.  
WAKE UP, FIND MATTERS BEYOND DREAMS !

**BOSON**

SLEPTON.  
SPECTRAL.

*(QUARK feels the nightmares.)*

*(BOSON brightly returns.)*

*(ATOM seems pleasantly surprised at BOSON.)*

NON-PHYSICIST HAS DRAWN  
HERSELF TO DESERTRON.

*(Addressing ATOM.)*

BY THE WAY, I'M BOSON.  
ACCELERATOR, I RUN.

*(Viewing the control.)*

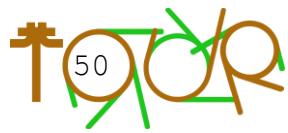
THERE'S TIME THAT YET NEEDS CRUNCH.

*(QUARK guards the control.)*

THIS HERE'S PARTICLE'S DAWN.  
DUSK WILL APPROACH WITH FUNDS.

*(ATOM hands cash to BOSON.)*

STILL HAVE ALL THE SPUN, SQUARK.



*(QUARK attempts to get ATOM to retrieve his cash. She reaches for the cash herself.)*

*(BOSON tosses the cash into the open.)*

SCENE vii

[*Debate Chamber*]

(*POLITICIANS rabidly bound for the cash. They notice QUARK, BOSON, and ATOM. They quickly adjust themselves.*)

**POLITICIANS**

SCIENCE NEEDS FUNDING?  
SCIENCE NEEDS FUNDING!

**BOSON**

DESERTRON COSTS A SLEPTON.

(*Kicking the cash to POLITICIANS.*)

**POLITICIANS**

SLEPTON?

(*Picking up the cash.*)

**BOSON**

DESERT...

(*Directing out.*)

**BOSON**

LOST ITS RUN.

**POLITICIANS**

WE WILL SLEEP ON THIS!

**BOSON**

TO SPUN ON NO AXIS.  
NICE RUN, MARATHON, LASTED.  
YOU'RE DONE, ALL THAT MATTERS.  
REAL FUN, IT WAS.



**POLITICIANS**

A SLEPTON!

**BOSON**

NO ACTIONS REQUIRED.  
PASSION, BIT QUANTUM, FULFILLED.  
OUR TAXES, DO BLOW IT.  
THEIR FUNDS, GO SLOW.

**POLITICIANS**

A SLEPTON!

*(Counting the cash.)*

THESE PARTICLES.  
THEY'RE PARTLY CHORES.  
DON'T MAKE WARS AS ATOMIC.  
I NEED GAS AS AN ADDICT.  
THERE'S NEW SCIENCE TO ENRICH.  
I'M PRINCIPLED.  
THEREFORE, NO MORE POEMS.  
THESE KNOWLEDGE YOU SHOULD DITCH.  
I WILL OUTCLASS, NOWT TO COMMIT.  
ART, ALSO MAKES THE WORLD

**QUARK**

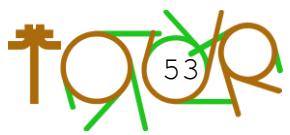
THERE'LL BE PEACE.  
RENEW-BLES.  
SOME POETRY.  
THERE IS ART  
IN PARTICLES!

**POLITICIANS**

SICK!

**BOSON**

ALREADY HAVE IT ALL AT THE ACCELERATOR.



**QUARK**

MORE.

(*Directing out.*)

**POLICITICIANS**

OPEN...

**BOSON**

DESERTRON'S CONDUCT SHOULD HAVE LEFT YOU SUPER FLOORED.

**QUARK**

EXPLORED PARTICLES!

**POLITICIANS**

DOORS.

**BOSON**

FOR YOU, THERE'LL BE NOTHING IN STORES.

ONLY TO LEAVE YOU IN THE DARK, ENLIGHTEN YOUR ACCORD.

**QUARK**

THEY'LL SEE DEATH.  
RECRUITING.  
IT'S SO LOW.  
I AM QUARK  
IN PART CAUSE!

**POLITICIANS**

ATOMIC MATTERS!

(*ATOM stirs.*)

**BOSON**

I'M BOSON, I LIGHT UP THE PHYSICS WORLD!



**POLITICIANS**

ATOM...

**BOSON**

(Addressing ATOM.)

LISTEN HERE SON,  
THERE IS NOTHING TO GLUON.

**POLITICIANS**

SPLIT.

**BOSON**

HEART TO HEART, NUCLEI NUCLEI. YOU'LL FEEL RENEWED.

(ATOM rhythmically claps.)

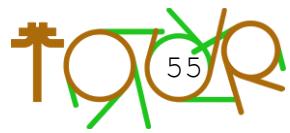
**POLITICIANS**

(Rhythmically slapping cash against their hands.)

YOUR PARTING CALL.  
A MATTER SOUGHT.  
THE WORLD WILL REMEMBER IT.  
TO RID OF THOSE WHO ARE SICK.  
POSITIVES FINALLY FIT.  
GIVE UP, 'CEL-RA-TOR.

(ATOM riles up.)

PART-CLES FOR ALL.  
TO EXPLODE IS YOUR PICK.  
CLIMATE IMPLODES, IS ALL OPTICS.  
CASH, REALLY MADE THE TIMES

**QUARK**

ATOMIC.  
CREATION.  
BIRTHS NEW LIFE.  
DON'T SELL OUT TO  
DESTRUCTION!

**POLITICIANS**

TICKED!

**BOSON**

YOU HAVE THE POTENTIAL, JUST NEED A LITTLE FORCE.

*(Presenting nominal cash.)*

**QUARK**

DROP...

**POLITICIANS**

FUNCTION...

**QUARK**

KINETIC.

*(Removing the cash from BOSON.)*

**BOSON**

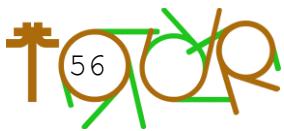
TAKE A POSITION, THIS IS YOUR MOMENTUM.

**POLITICIANS**

RAN.

**QUARK**

ALL LAGRANGIAN.



**BOSON**

LET THE ENERGIES BE HAMILTONIAN.

**POLITICIANS**

SUM.

*(Raining down the entire cash on ATOM.)*

**ATOM**

NUCLEAR NOW!

*(Tearing apart the control.)*

*(QUARK helplessly watches.)*

**BOSON**

THE BOMB, YOU REALLY ARE.  
NO FLAWS, IT IS IN NUCLEAR.  
IN AWE OF REVENUE.  
THE PALM OF YOURS.

**POLITICIANS**

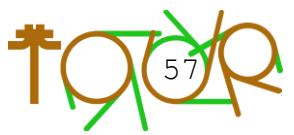
SLAP ON IT!

**BOSON**

THESE FEES KEEP PILING ON.  
LIFE TEEMS CONCLUSIVE RESULTS.  
YOUR DREAMS ARE ATOMIC.

*(Pinching his thumb and index finger.)*

'NERGIES, RUN FREE.



**POLITICIANS**

SLEEP IT OFF!

(*QUARK weeps.*)

(*BOSON, ATOM, and POLITICIANS huddle around in the nuclear winter.*)

### 13a. SLEPTON (reprise)

(ATOM and POLITCIANS depart.)

#### BOSON

A SHAME YOU CAN'T MEET.  
HER GAME, PARTICLES, NEW HIRE.

(QUARK recognizes the persona of ЛЕПТОНИА.)

(BOSON reminisces.)

GOURMETS, DESERTRON.

(Pushing away QUARK.)

NOW STRAY, SLEPT ON.

(Vacating.)

(QUARK reclusively perches.)

### 14. BACKSCATTER

(ЛЕПТОНИА eagerly skips in.)

#### ЛЕПТОНИА

I'M BACK WITH A TORSION. IT'LL SHATTER  
EXPECTATIONS. I'M POSITIONED  
VECTOR OF THE ACCELERATOR!

(QUARK remains silent.)

I SUPERVISE PARTICLES!

**QUARK**

SHUT UP WITH YOUR PARTICLES.  
I DO NOT KNOW THESE BACK-  
STABBING MATTERS I DON'T BELIEVE  
IN ANY OF YOUR WORK.

**QUARK**

BACKSCATTER!

**ЛЕПТОНИЯ**

SO UPFRONT.

(ЛЕПТОНИЯ looks around the void.)

YOU'RE TRULY NOT ENVIOUS FOR ME TO BE MAKING WAVES.  
DON'T MAKE OUR COUPLED ACADEMIC BOND INELASTIC.  
THERE'RE PLENTY OF PHOTONS ALIGHNED BEYOND THIS  
GEGENSCHEIN.

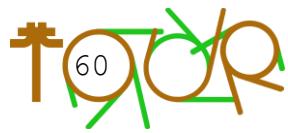
(QUARK slightly shudders.)

WHY NOT REFLECT WITH ME, COMRADE?  
WORLD MAY LACK THE IONS OF FUTURE.  
LET'S FORWARD SPECULAR FAR PASSED.  
NO MORE FOR ME. FOR ONCE, WORK WITH ME.  
IT'S PRESENT, ACCELERATOR.  
I'M AWARE PARTICLES ARE NOT THE RIGHT FIT PHYSIC-LY.  
BUT I REMEMBER HOW MAGNETS ALWAYS GAVE YOU MOMENTS.  
EXCITATIONS CIRCUITS AS MAGNETIC FLOWS ALL CORNERS.  
TAKE THE ACCELERATED TOUR!

(Holding QUARK's hands.)

(QUARK pushes away ЛЕПТОНИЯ.)

MY LOVE FOR PART-CLES MADE YOU REPELLED.  
FIND HOME IN SOME MAGNET FACT-RY.  
AS ADVISOR, I SHALL BACKSCATTER.  
SEND MY SIGNALS, TO BE FREE.



**QUARK**

A WEAK LOCALIZATION.  
FIBER WENT BAD OPTICS.  
LEAVE ME MORE LESS ISOTROPIC  
IN RANDOM DIRECTIONS.

**QUARK**

BACKSCATTER!

**ЛЕПТОНИЯ**

GOT YOUR BACK.

(ЛЕПТОНИЯ leaves.)

**QUARK**

HEART SHATTERED.

## 15. ELECTROFORMING

SCENE viii

*[Magnet Factory]*

*(ATOM and ENGINEERS march in. They set up a factory. They supply metals.)*

**ENGINEERS**

CONFORM.

*(ATOM hands a form to QUARK.)*

FILL THIS FORM.

*(QUARK signs the form.)*

COME WITH US. WORK WITH US.

*(QUARK hands back the form.)*

YOU'RE WELCOME. JUST HARD WORK.

*(QUARK joins in with ENGINEERS.)*

HEART ON FIRE. MIND ON ICE. CONFORM. CONFORM.

*(Sitting at their workstation.)*

CONFORM. CONFORM.



(ATOM sits down. He starts testing magnets with the metals.)

**ENGINEERS** (cont.)

CONFORM. CONFORM.

(Seating QUARK next to ATOM.)

CONFORM. CONFORM.

**QUARK**

YOU HEAR ME? IS IT CLEAR? TOGETHER. NOW'S HELPFUL.

(Trying to hold back the internal cubicle she is trapped in.)

IN THE MOOD. TO FIGHT YOU...

**ATOM**

STAY PATIENT. THAT'S YOUR ROLE.

[The metals combust.]

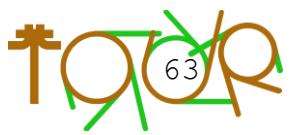
(A supervising ENGINEER steps in.)

MANAGER. I'M SORRY. FORGIVE ME. FORGET ME. SAVE YOUR LIFE. SAVE YOUR LIFE.

**QUARK**

FIGHT FIGHT FIGHT. FIGHT FIGHT FIGHT.

(Feeling defeat. She places her head on the workstation.)



## ENGINEERS

DEFORM.

(ATOM and ENGINEERS depart with all but QUARK's workstation.)

### 16. PREON

(QUARK's head remains face down on the workstation.)

(ЛЕПТОНИА tiptoes in.)

#### ЛЕПТОНИА

YOU HAVE REACHED THE MASS POINT.  
PRINC-PLE OF UNCERTAIN-TY.  
COLLECT YOUR PAR-DOX.  
SCATTER YOUR PLOTS.

(Organizing QUARK's space.)

КАНДИДАТ НАУК (kandidat nauk)?  
WHAT'S IT THAT YOU FEAR? OH.

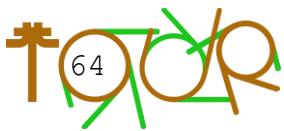
(Rolling QUARK over. She notices the magnets.)

THESE ATTRACTING MAGNETS  
REPEL YOUR SPIRIT,  
WERE IN PARTICLES.  
I WILL PRAY ON.

(QUARK riles herself up.)

#### QUARK

MY MODEL HAS ITS STANDARDS. I'LL NOT CONFLATE  
POINTLIKE PART-CLES LIKE THESE DIPOLES IN  
MAGNET-ZATION. MY EL-MENTARY MINDSET KNOWS PSEUDO  
PHYSICS. I'M PART FRAUD. THIS IS THE END, THIS



**QUARK** (cont.)

EXPERIMENT. MY BEING CANNOT TAKE THIS. DON'T HAVE THE PHYSICS. MY BRAIN WAVES TRANSVERSED.

(ЛЕПТОНИА looks through the workstation.)

DYING BY POLAR-ZATION. MY 'XISTENCE ONLY REPELS.

(ЛЕПТОНИА pulls out a lightbulb and wires.)

I REALLY DON'T KNOW HOW YOU FIND POINTLESS MATTERS SO SENTIMENTAL.

(ЛЕПТОНИА performs the experiment.)

**ЛЕПТОНИА**

I'M MENTAL, SPEAKING YOUR LANGUAGE. JUST TRYING OUR CLASSIC PROJECTS. POINT PARTICLE'S HYPOT-SIS. POINT OF YOUR LIFE'S TO THEORIZE, PERHAPS PREON? JUST HAVE A BELIEF. POSITRON TO 'LECTRON, DON'T BE ANTIMATTER ON ME NOW. JUST LIGHTEN UP, BE BRIGHTER COMRADE.

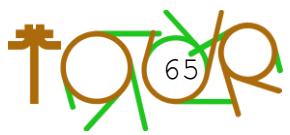
**QUARK**

TRY TO 'NIT-ATE CONDUCTION.  
MY TEMPER-MENT'S TO BE SHUNNED.  
PASSION'S NOT FOR SIMPLETONS.

**ЛЕПТОНИА**

PREON.

(QUARK takes over the experiment.)



## QUARK

STELLAR USAGE OF PREON.  
BUT THERE'S NO FAITH IN PREON.  
NOT A MATTER THAT'S PREON.

(Finishing the experiment.)

ИДИ ТЫ В БАНЮ (idi v'banyu) !

## ЛЕПТОНИА

IT'S YOU WHO NEEDS TO GET LOST.  
LET ME LIVE IN PAR-DOX.  
PUPIL, GO ON. QUIT...

(*QUARK slides the magnets towards the light bulb.*)

[The light bulb lights up.]

BEING A ХУЙ (hooy). QUARK,  
P  
H  
D.

## QUARK

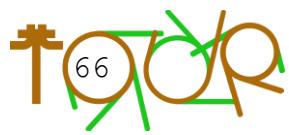
PRAISE BE.

## ЛЕПТОНИА

PREON.

[The Magnet Factory brightens up.]

(*QUARK and ЛЕПТОНИА intimately hold their gazes.*)



(QUARK distances the magnets away from the light bulb.)

[Blackout.]

*End of Act*

ACT III

## 17. BRING THE CONDUCTIVITY

SCENE i

[Accelerator]

[A barrier hides the Accelerator. There are chairs.]

(TECHNICIANS dress themselves in collegiate attire.)

(ЛЕПТОНИА, BOSON, and TECHNICIANS wander or sit. Some TECHNICIANS shake hands. Some TECHNICIANS carry refreshments.)

[Fog disperses from a lower section. There is a boom.]

(ЛЕПТОНИА and BOSON remain unstartled.)

(Sitting TECHNICIANS and some upright TECHNICIANS applaud.)

(The rest of TECHNICIANS tremble.)

(ЛЕПТОНИА, BOSON, and TECHNICIANS sit.)

(QUARK strolls backwards in. She pulls a chalkboard. She turns only her head towards the fog, keeping her grip on the chalkboard.)

[The fog disperses, revealing a chalkboard eraser.]

(ЛЕПТОНИА heads to pick up the chalkboard eraser.)

(QUARK drops her grip. She turns, revealing her torso. She feels embarrassed. She grabs the chalkboard eraser out of ЛЕПТОНИА's hand. She places her free hand on the helmet on her chest, with a lanyard holding her helmet. She bows to ЛЕПТОНИА.)

(ЛЕПТОНИА places her hand on her helmet and bows.)

(QUARK erases the chalkboard and writes, "PIECE".)

### **ЛЕПТОНИА**

(Simultaneously extending her right arm.)

PEACE...

(QUARK writes, "of a magnetic quadruple.")

(Simultaneously extending her left arm.)

WITHIN HER HEART CHAMBERS...

(QUARK draws an "X" within the center of the lower right-half of the chalkboard. She writes, "is here".)



**ЛЕПТОНИЯ** (cont.)

IS NOT QUITE THERE.

(*QUARK draws a circle that touches the "X". The circle encompasses the whole chalkboard. The circle's center is directly in the middle of the chalkboard.*)

(*TECHNICIANS stand up.*)

SO, LET'S SETTLE FOR THE REST OF THE MIND.

(*BOSON stands up.*)

**BOSON**

THIS CANNOT STAND.

(*Promptly sitting down.*)

**ЛЕПТОНИЯ**

(*Placing her hand to her chest.*)

YOU STRUCK A CHORD IN MY HEART.

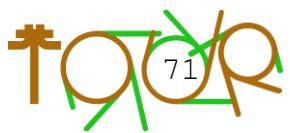
(*Clearing her throat and extending her arm.*)

ИЗВИНИТЕ (izvinite), A CORE IN THE UNIVERSE.

(*TECHNICIANS applaud.*)

(*Some TECHNICIANS raise QUARK high up on their shoulders.*)

(*BOSON bolts out.*)



(Some TECHNICIANS remove chairs and return.)

**QUARK**

HEY BUILDERS. I MUST-A SAY... THERE'S TIME FOR LOLLYGAGGING. THERE'S SPACE JUST TO REST EASY.

(ЛЕПТОНИА attempts to direct TECHNICIANS to set QUARK down.)

HEY BUILDERS. SHE DOES DECLARE. I MAY BE FUN AND SHE'S NOT. BUT SHE'S STILL YOUR GUARDIAN.

**TECHNICIANS**

CONGRATULATION-ION-IONS! TO THE NEW TECHNICIAN-IAN!

**ЛЕПТОНИА**

ALL. ПРИВЕТ (privet)! PARDON ME. SHE DIDN'T FINISH THIS LADDER.

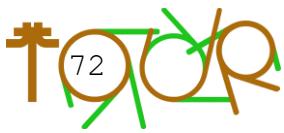
(TECHNICIANS let QUARK down. They leave to uniform like engineers. They stand at attention behind the barrier.)

HEY QUARK E. I MUST REMIND... THAT LADDER'S AN ILLUSION. WE COMRADES JUST SAW YOU SOAR.

**QUARK**

(Consoling herself.)

YOU. MATTER. ACT NORMAL. THERE ARE CLOUDS TO LAND BELOW. BUT NO ROOM TO BREATHE ABOVE.



(*BOSON enters with an ID.*)

**BOSON**

DON'T GIVE UP. I WILL JUST SAY, EXCHANGE PARTICLE.

(*Pinning the ID onto QUARK.*)

WELCOME TO THE CONTOUR.

(*Heading behind the barrier.*)

(*QUARK feels stiff by the ending remark.*)

HEY. CAREFUL. I MUST-A STATE... LET'S BE MODEST ON ENTRY.

**ЛЕПТОНИА**

REVEAL TO US WHAT WE GOT!

[*The barrier opens to reveal the beauty of the Accelerator.*]

**QUARK**

I MUST SAY...

**COMPANY**

BRING THE CONDUCTIVITY!

**QUARK**

NO WORDS. I AM LEFT SPEECHLESS.

(*Putting on the helmet.*)

18. HADRON







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