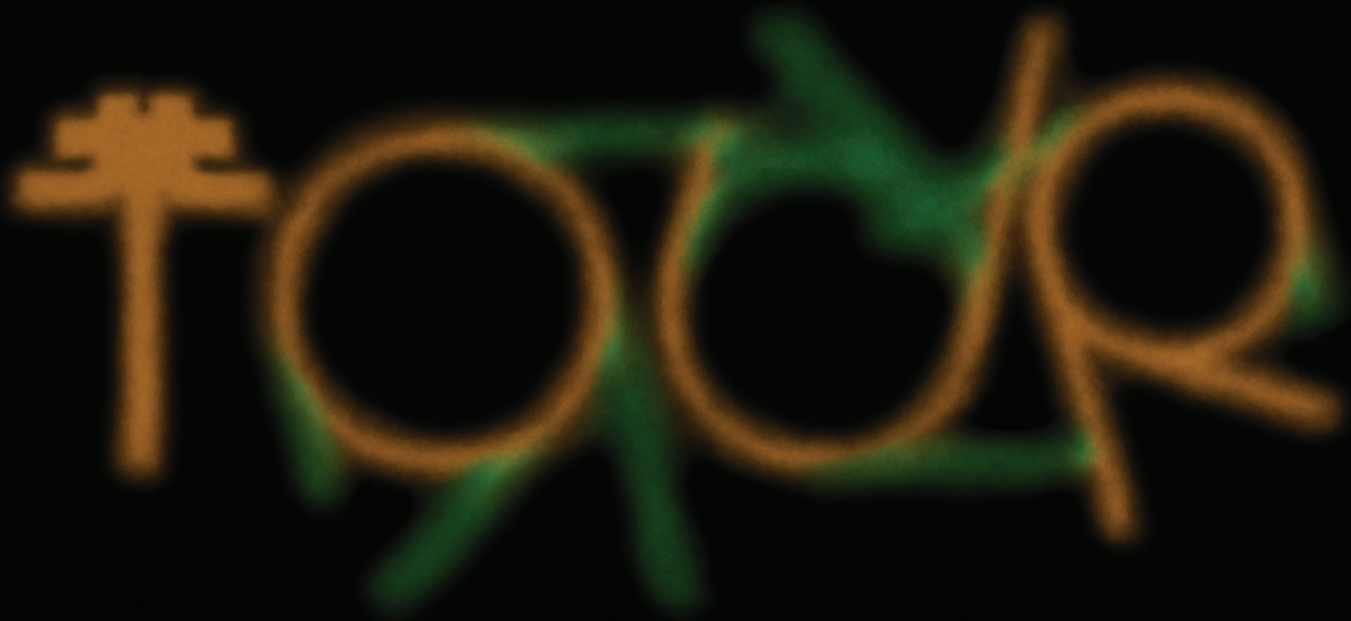


# DIRECTOR'S SCRIPT



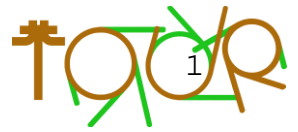
Book, Music, and Lyrics  
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TOUR

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A Musical

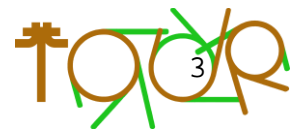
by

David Quang Pham



## THANK YOU

Name	Role
Emily Johnson	Data Scientist
Marcos "Danny" Caballero	Professor of Electromagnetism
Montana Earegood	Copyeditor
Ruthann Gregory	Physicist
Micealaya Moses	Dramaturg
Kaliyah Jetton	Original Unofficial Reader
Collin Bailey Jonkman	Original Unofficial Reader
Rebecca Chan	Original Unofficial Reader
Vanessa Bond	Original Unofficial Reader
Brian de Vries	Original Unofficial Reader
Madelyn Paquette	First Reading Host (April 24, 2020)
Haley Baird	Originated Reader of Quark
Bianca Waechter	Originated Reader of Лептон
Peter Louis Epstein	Originated Reader of Boson
Carina Goebelbecker	Originated Reader of Atom
Monica Cross	Originated Reader of the ensembles
Marie Incontrera	Originated Narrator
Kami Visitsak	Originated Singer of Quark
Diana Easter	Originated Singer of Лептон
Brian Egland	Originated Singer of Boson
Rina Lubit	Originated Singer of Atom



## 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, Лептон, 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. Лептон 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 E</u> A physics student and physicist.	Mezzo-Soprano – Soprano	Woman	Adult
<u>ЛЕНТОН</u> (lepton) A doctoral advisor and lab supervisor.	Alto – Mezzo-Soprano	Woman	Adult
<u>BOSON</u> A physics professor and lab director.	Bass – Tenor	Man	Adult
<u>ATOM</u> A physics scholar and a right-hand scientist that makes up for everything.	Any	Any	Adult
<b>Ensemble</b>			
- STUDENTs	- RESEARCH ASSISTANTs	- PROFESSORs	
- ENGINEERs	- POLITICIANs	- TECHNICIANs	
- PARTICLEs			

## 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 Лентон: 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

№	Title	Character(s)
1.	Eigen	COMPANY but QUARK
2.	Exchange Particle	QUARK   ATOM
3.	Torsion	QUARK   ЛЕПТОН
4.	Available Energy	QUARK
5.a.	Tachyon	QUARK   BOSON   ATOM   ЛЕПТОН   students
6.	Nuclide	QUARK   BOSON   ATOM
7.	Entanglement	QUARK   BOSON
8.	Crossing Field Lines	QUARK   BOSON
9.	Centration	QUARK   BOSON   research assistants
10.	G	QUARK   ЛЕПТОН   ATOM   professors
11.	Anyon	QUARK
12.	Valence	QUARK   ЛЕПТОН   ATOM   students
13.	Effusion	QUARK
14.a.	Super Collide	QUARK   ЛЕПТОН   engineers
15.	Particulate	QUARK   ATOM
16.a.	Slepton	QUARK   BOSON   ATOM   politicians
17.	Backscatter	QUARK   ЛЕПТОН
18.	Electroforming	QUARK   ATOM   engineers
19.	Antimatter	QUARK
20.a.	Preon	QUARK   ЛЕПТОН
21.	Mole (movement)	COMPANY
22.	Elementary Particle	QUARK   ATOM
23.	Bring the Conductivity	QUARK   ЛЕПТОН
24.	Mass Charge Spin	QUARK   ЛЕПТОН   BOSON
25.	Hadron	QUARK   ЛЕПТОН   BOSON   ATOM   technicians
26.	Fusion	QUARK   BOSON   ATOM
27.	Synchrotron: Magnet-Guided	QUARK   BOSON   technicians
28.	Hypercharge	QUARK   ЛЕПТОН   BOSON   ATOM   technicians
29.	Isospin	QUARK   ЛЕПТОН   BOSON
30.	Subatomic	QUARK   BOSON   ATOM   technicians
31.	Meson	QUARK   BOSON   ATOM
32.	Pion	QUARK   ATOM
33.a.	Electrons	QUARK   ЛЕПТОН   BOSON   technicians
34.	Fission	QUARK   BOSON   ATOM
35.	Photonic Parity	QUARK   BOSON   technicians
36.	Baryon	QUARK   ЛЕПТОН   ATOM
37.	Decay (movement)	QUARK   particles
38.	Supersymmetry	QUARK   ЛЕПТОН   BOSON   ATOM   particles
39.	Knot (bow)	COMPANY



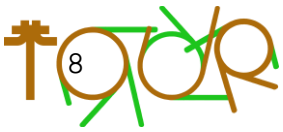
## SCENES & SET DESIGNS

Scene Page	Location	SET   props
I i 8	University	PARTICLE BOARD displays a schedule, holds a box of tacks, hides a field line diagram DESK holds horseshoe magnets(4+) with a note stuck to a magnet, a field line diagram, a packet, a pen, a thesis, a decorative box hiding a magnet, packets, papers, scantrons
I ii 50	Desertron	operator's control cash
I iii 68	Magnet Factory	WORKSTATIONS hold magnets, metals, a light bulb, wire form pen
II i 75	Accelerator	TUNNEL
III	Quantum World	





ACT I



1. EIGEN
----------

SCENE i

*[University]*

*(ATOM arrives. They find the spot(s) to tango.)*

*(STUDENTS move randomly about.)*

*(BOSON enters. He approvingly taps ATOM.)*

*(ATOM directs STUDENTS in an orderly fashion.)*

*(BOSON briefly observes. He departs.)*

*(JEPHOH rushes in, carrying papers. She hands the papers to ATOM. She wildly roams around.)*

*(ATOM tries to direct JEPHOH but to no avail. They refocus on STUDENTS.)*

*(JEPHOH rushes out.)*

*(STUDENTS bring in a particle board and a desk.)*

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

*(STUDENTS neatly exit.)*

## 2. EXCHANGE PARTICLE

*(ATOM staffs themselves 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. They dismiss 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.)*



**ATOM (cont.)**

E.

*(ATOM rips the schedule off the particle board. They hand the schedule to QUARK.)*

**QUARK**

DID I GET IN...?

*(Reading the schedule.)*

THE LECTURE TAUGHT UNDER 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.

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

## QUARK (cont.)

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.)*

### 3. TORSION

*(JENTON strolls in.)*



*(QUARK collides into ЛЕПТОН.)*

*(ЛЕПТОН twists herself into a pretzel.)*

**ЛЕПТОН**

ДЕРЬМО (der'mo). TORSION.

*(QUARK helps ЛЕПТОН up.)*

TWISTED СУ́КА (súka).

**QUARK**

MEAN FREE PATH.

MEANT NO HARM.

**ЛЕПТОН**

WHY THE RUSHING?

*(QUARK tries to flee.)*

*(ЛЕПТОН grabs ahold of QUARK.)*

TAKE COURSE LIGHTLY.

**QUARK**

A DEGREE

NEEDS ALL THESE

TORSIONS, TURNS

TO BE YOU.

*(ЛЕПТОН releases QUARK.)*

## ЛЕПТОН

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 ЛЕПТОН.

*(Hurrying off.)*

## 4. AVAILABLE ENERGY

## QUARK

AVING MASTER  
ENERGIZED FAILED 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 GAS 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.)*

ENTROPIC TIMES THEN  
CHAOS. PUT WORK AS YOUR PRIME.



**QUARK** (cont.)

UNIT IS ALWAYS TIME. A DEGRADATION,  
'LECTROSTATICS CLASS.  
AVOID THAT COLLISION COURSE.  
COLLAPSE THROUGH SYNERGY. ENERGIZE POTENTIAL.

<p><b>5. TACHYON</b></p>
--------------------------

*(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.)*

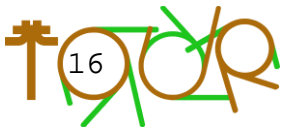
**STUDENT**

PHONONS!

*(BOSON dismisses the answer.)*

**STUDENT**

MUONS!



*(BOSON dismisses the answer.)*

**STUDENT**

BOSON?

*(BOSON seems taken off guard.)*

**ATOM**

BORONS... THEORY!

*(STUDENTs ponder.)*

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 particle board  
away, 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.)*

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

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

*(Their experiment concludes.)*

<p><b>5a. TACHYON (reprise)</b></p>
-------------------------------------

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

**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.)*

6. NUCLIDE
------------

*(QUARK heads over to the desk. She begins writing a thesis.)*

## ATOM

PERHAPS YOU COULD STAY LONGER IF YOU TRIED  
SUPERPOSITION?

MASSLESS APPEALS DOES NOT LEAVE US TO BE TIGHTLY  
BINDING.

ENERGY STATES OUR STABILITY ALONG THE YEARS HAVE BEEN  
A NUCLIDE, A RIDE.

*(Growing disheartened at the sight of QUARK.)*

## BORON

BORON WAS WHAT OTHERS COULD ONLY SEE WITHIN  
YOURSELF.

FIVE POSITIVE, NEGATIVE, NEUTRAL SENSES WITHIN YOU.  
ATOMIC RADIOACTIVITY DOESN'T HAVE TO HIT YOU, JUST LET  
THIS SLIDE.

*(Embracing ATOM.)*

## ATOM

AT LEAST YOU SAW ME AS A SYMBOL BESIDES JUST A NUMBER.  
BEFORE YOU LEAVE, YOU'RE GENEROUS TO PROVIDE ME SOME  
LIGHT.

*(Splitting from BOSON.)*

THANK YOU FOR THE RECOMMENDATIONS TO LEVELS AMONGST  
GRAD SCHOOL'S NUCLIDES, HALF-LIFE.

*(Departing.)*

## BOSON

PICK UP MANY POSITIVE CIRCLES FOR A CHANGE, WILL YOU?!  
ATOM, YOU DO MATTER AND MAKE THE BEST OF EVERYTHING.

*(QUARK finishes the thesis. She heads to  
BOSON.)*

YOU ONCE THEORETICALLY DID AND NOW WHAT'S LEFT IS TO  
DEAL WITH THIS NUCLIDE?

*(Focusing on QUARK.)*

## 7. ENTANGLEMENT

*(QUARK unveils and gifts 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 MAY JUST PROFESS

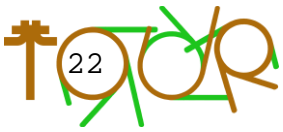
*(Motioning towards himself. He is in the  
mood to tango.)*

IN NO TIME.

ARE YOU INTO QUANTUM ENTANGLEMENT?

STILL MAGNETIC EXCITATION TO BE FOUND.

YOU GIVEN PICKING UP PHOTONS FOR A CHANCE?



## BOSON (cont.)

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.)*

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.)*

**BOSON** (cont.)

FIELD THEORIES PROPOSED, WILL YOU

*(Opening the box, revealing a magnet.)*

QUANTUM ENTANGLE ME?

## 8. CROSSING FIELD LINES

*(QUARK may express mixed feelings.)*

**QUARK**

BOSON.

BOSON...

FIELD LINES.

FIELD LINES...

ARE CROSSED.

ARE CROSSED...

FIELD LINES SHALL NEVER BE CROSSED.

*(Pointing to the field line diagram.)*

THE FIELD LINES HERE, CROSSED.

*(BOSON reads 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.

*(Pleading to an unmoving QUARK.)*

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

*(Falling in shambles.)*

**QUARK**

THE FIELD LINES SHALL NEVER BE CROSSED!

## 9. 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.)*

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.)*

QUANTUM  
ARE AGGREGATION.  
OUTLIER!

*(Pointing to QUARK.)*

APPLY CENTRATION.

*(RESEARCH ASSISTANTS encircle QUARK.)*

CONCEN-

**BOSON**

**RESEARCH ASSISTANTS**

TRATE.

*(RESEARCH ASSISTANTS throw all the packets  
at QUARK, like a circular firing squad.)*

**RESEARCH ASSISTANTS**

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

*(QUARK kneels.)*

**RESEARCH ASSISTANTS** (cont.)

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

*(BOSON snatches the packet from QUARK.)*

CONCENTRATION.  
 CAN YOU 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 rolled-up diploma.)*

CONCENTRATION.  
 CAN YOU FEEL IT?

*(BOSON remorsefully slaps QUARK with the diploma.)*



*(QUARK falls back, unconscious.)*

*(BOSON drops the diploma onto QUARK.)*

**RESEARCH ASSISTANTS (cont.)**

CENTRATE.

CONCENTRATION.

*(Removing the particle board and the desk.)*

CAN'T

CONCENTRATE.

CENTRATE.

*(BOSON and RESEARCH ASSISTANTS march off.)*

<b>10. G</b>
--------------

*(ATOM and PROFESSORS wander in. They unroll the diploma. They pick up and read the packets. They discard the diploma.)*

**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.)*

*(ЛЕПТОН rushes in.)*

**ЛЕПТОН**

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.



*(ЛЕПТОН recognizes QUARK.)*

**ЛЕПТОН** (cont.)

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 ЛЕПТОН to not disclose  
that information.)*

**ATOM**

AFFLICT.

**ATOM**

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

**PROFESSORS**

**ЛЕПТОН**

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.



**ЛЕПТОН** (cont.)

**ATOM/PROFESSOR**

PHYSICS, CLASSIC, QUANTUM,  
BASIC, NEVER SLEEP.

EQUATIONS, UNFIT SO  
YOU HAVE TO TWEAK.

*(ЛЕПТОН takes the packet from ATOM. She  
reads the packet.)*

**ЛЕПТОН**

AT THE VERY LEAST, SHE HAS PRINCIPLED HALF SPINS!

**ATOM**

**PROFESSORS**

SPIN IT.

FLUX, GIVEN NONE.

**PROFESSOR**

HER VARIABLE IS JUST A MASS.

**ЛЕПТОН**

**ATOM**

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

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

**PROFESSOR**

METHODS, NONE  
INTEGRAL ITS ANGLING  
FOR.

*(ЛЕПТОН returns the packet to ATOM.)*

**ATOM**

GRAV-TY.



**ЛЕПТОН**

FELT I FORCE THESE G'S.

**PROFESSORS**

FORCE YOU'LL FEEL ARE  
G'S.

*(ЛЕПТОН takes QUARK out for a spin.)*

*(QUARK flounders around.)*

*(ATOM and PROFESSORS humbly depart.)*

**ЛЕПТОН**

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

*(QUARK seems hesitant.)*

MATTERS THAT ARE PARTICLES WITHIN YOU.

**ATOM**

**PROFESSORS**

OCCUPY STATE!

**ЛЕПТОН**

NAME?

*(QUARK whispers into ЛЕПТОН's ear.)*

QUARK?  
SEEMS TO HAVE A LACK OF SPIN.  
FIRM.  
I AM IN ANY CIRCLES, ORBITALS.

ЛЕПТОН (cont.)

ДРУГ (drug).

YOU'RE A FORCE TO BE WEIGHTED UPON THEE!

*(Stopping the momentum.)*

STATE. HAVE TO SPIN TO!

*(Spinning off.)*

11. 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: ЛЕПТОН.

A NON-ABELIAN...

I CAN'T TIE UP THIS QUANTUM KNOT.

QUANTUM WEIGHT. ENVIR-MENT. OPERATIONS.

NO NOISE. THERE ARE ONLY ENERGY GAPS.

QUBITS. YOU ARE A QUANTUM COMPUTER.

DON'T FLUXUATE. I CARE FOR ANYONS. TRY.



## 12. VALENCE

*(STUDENTs wander about.)*

### STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

*(ЛЕПТОН trudges in, carrying paperwork with  
scantrons.)*

### 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?

**STUDENTS**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**ЛЕПТОН**

ALARM, INFREQUEN—

**STUDENTS**

THIS EMISSION LEADS TO  
GROUND STATE.

THAT ADMISSION LEAVES  
YA GROUNDED.

*(ЛЕПТОН hands a paper to QUARK.)*

**ЛЕПТОН**

SEE

**STUDENTS**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

**ЛЕПТОН**

TO INTEGRATION.

**STUDENTS**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

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



**ЛЕПТОН**

D'RIVE ON.

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

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

**ЛЕПТОН**

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!

*(ЛЕПТОН eyes STUDENTs.)*

**QUARK**

**STUDENTs**

ASSUME MY MOTIVE.

MOTIVATION.  
MAKE ASSUMPTIONS.

FIRST ORDER NOTED.

**STUDENTS** (cont.)

NATURAL EQUATIONS.  
DIRECT NOTATIONS.

*(QUARK disorderly eyes STUDENTs.)*

**QUARK** (cont.)

FRESH SCHOLARS UNVEILED.  
  
SURVEILLANCE.  
SERVE VALENCE.

**STUDENTS** (cont.)

FRESH GENERATIONS.  
INFORMATION.  
OBSERVATION.  
SHELLED ELECTRONS!

**ЛЕПТОН**

TEACHING ASSISTANT.

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.

**ЛЕПТОН**

THESE STUDENTS

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.

**ЛЕПТОН**

SUCK ENERGY

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.



**ЛЕПТОН**

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 ЛЕПТОН  
ЛЕПТОН.

QUARK. QUARK.

**QUARK**

OPTICAL, LOOKS GOOD.

**STUDENTs**

GEE PROFESSOR ЛЕПТОН  
ЛЕПТОН.

QUARK. QUARK.

**QUARK**

BASIC-LY, I'M HIP.



**STUDENTs**

GEE PROFESSOR ЛЕПТОН  
ЛЕПТОН.

QUARK. QUARK.

**QUARK**

I'LL ADDRESS ALL QUESTIONS!

**STUDENTs**

GEE PROFESSOR ЛЕПТОН  
ЛЕПТОН.

QUARK. QUARK.

**ЛЕПТОН**

SO FAILING. ASK IF

**STUDENTs**

THANK YOU, QUARK E!  
THANK YOU, QUARK E!

NO THANKS TO YOU,  
ЛЕПТОН ЛЕПТОН.

**ЛЕПТОН**

QUESTIONS 'RISE BRIEFLY

**STUDENTs**

THANK YOU, QUARK E!  
THANK YOU, QUARK E!

NO THANKS TO YOU,  
ЛЕПТОН ЛЕПТОН.

**ЛЕПТОН**

THEN YOU SNUB. NO



**STUDENTs**

THANK YOU, QUARK E!  
THANK YOU, QUARK E!

NO THANKS TO YOU,  
ЛЕПТОН ЛЕПТОН.

**ЛЕПТОН**

NEED VALIDATION.

**STUDENTs**

THANK YOU, QUARK E!  
THANK YOU, QUARK E!

NO THANKS TO YOU,  
ЛЕПТОН ЛЕПТОН.

*(Becoming rigid.)*

*(ATOM struts in.)*

**ATOM**

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

**STUDENTs**

EXACTLY WHAT IS SPIN?  
QUARK E?

**QUARK**

*(Flabbergastingly answering.)*

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?

**QUARK**

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

**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**

THAT, YOU 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  
QUITS 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.)*

ENERGIES FOR  
THE VALENCE!

CONTRIBUTION.  
CONTRIBUTION.

*(ATOM passes around the cheat sheets.)*

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

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

*(ЛЕПТОН holds back QUARK.)*

**ЛЕПТОН**

THEY'LL GET ELECTRONS.

*(STUDENTS pass around scantrons.)*

**STUDENTS**

DISTRIBUTION OF THE SCANTRONS.

**ЛЕПТОН**

THEY'LL GROUP THE EL-MENTS.

*(STUDENTS group together.)*



**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**ЛЕПТОН**

THEY'LL CONFIGURATE.

*(STUDENTS form circles.)*

**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**ЛЕПТОН**

THEY'LL COME OUT THEIR SHELLS.

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

**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**ЛЕПТОН**

THEY'LL FIND OUT THEIR VALENCE.

*(STUDENTS orbit either ЛЕПТОН and QUARK,  
and/or ATOM.)*

**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**ЛЕПТОН**

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 ЛЕПТОН.)*

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

**ЛЕПТОН**

DON'T TAKE IT.

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

*(STUDENTs hand the papers to QUARK.)*

*(QUARK snubs STUDENTs.)*

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

**ЛЕПТОН**

WRONG ENERGY LEVEL.

*(Gathering all the papers from STUDENTs.)*



## STUDENTs

VALENCE ELECTRONS.  
VALENCE ELECTRONS.

VALIDATION.  
VALIDATION.

## ЛЕПТОН

VALIDITY.

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## ЛЕПТОН

THERE'S

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## ЛЕПТОН

NO NEED SEARCHING

## STUDENTs

VALENCE ELECTRONS.  
VALENCE ELECTRONS.

VALIDATION.  
VALIDATION.

## ЛЕПТОН

VALIDITY.

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.



ЛЕПТОН

THE HEART

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛЕПТОН

OF PHYSICS

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛЕПТОН

PUMPS

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛЕПТОН

VALIDITY.

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛЕПТОН

NEED



## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

## ЛЕПТОН

NO VALIDATION.

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

## STUDENTs

VALENCE ELECTRONS.

VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

JUMP!

BUMP!

*(ЛЕПТОН departs.)*

*(STUDENTs orbit away.)*

## 13. EFFUSION

*(QUARK kneels. She spreads the papers out onto the floor.)*

## QUARK

EFFUSION.

'BOUT TO BLOW A FUSE.

LOSING FEELINGS.

MENTAL DIFFUSION.

I AM SO EFFUSION.

ACTUALLY, EFFUSION.

*(Slapping the papers.)*

DON'T BE CONDENSED.

LET OFF SOME STEAM.

GASES MOVE FAST.

INCREASE HEART RATE.

FIND WHAT'S GIVEN.

**QUARK** (cont.)

HOLE IN THE WALL.  
LESS MOLAR MASS.  
ESCAPE THIS BOX.

*(Refocusing on the papers. She gathers the papers.)*

EFFUSION.  
WAS I A BORON?  
GOT TO HAND  
ELECTRONS, JUST TO BE  
LENIENT. EFFUSION.  
HOW ABOUT? EFFUSION.

*(Tossing out the papers.)*

EFFUSION.  
GIVE NO EFFUSIONS.  
NONE EFFUSION.  
JUST GO EFFUSION.  
I SWEAR TO EFFUSION.  
YOU ALL CAN EFFUSION IT!

*(Preparing for a journey.)*

## 14. SUPER COLLIDE

SCENE ii

*[Desertron]*

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

**ЛЕПТОН**

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.

*(ЛЕПТОН wanders off.)*

END UP WITH DESERTS.

*(Noticing ЛЕПТОН'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.

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

# ЛЕПТОН

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 THEORIZE...  
SUPER COLLIDE.

*(QUARK presses on the control.)*

BEAMS SUPER COLLIDE!

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

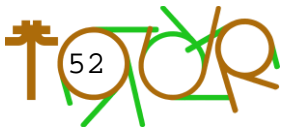
БЛЯДЬ (blyat).  
GIVE ME A MOMENT.  
HOLD UP UNIVERSE!

*(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**

**ENGINEERs**

QUANTA.

RAYs!

**QUARK**

*(Feeling matters.)*

'NERGY BUNDLES.

**QUARK**

**ENGINEERs**

STANDARD

FORCE!

**QUARK**

MODEL.

*(Growing antsy.)*

THEORIZED

**QUARK**

**ENGINEERs**

'NOUGH.

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?

**ЛЕПТОН**

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.

**ЛЕПТОН**

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.)*



**ЛЕПТОН**

AT DESERTRON.

**QUARK**

SUPERNAT-RAL.

**ЛЕПТОН**

CONDUCT YOURSELF.

**QUARK**

SUPERVISION.

**ENGINEERS**

ENERGY, CAN YOU FEEL  
IT, GAIN THE MAGNET!

REACH THE SPEED OF

LIGHT!

ANTI-QUARK MATTERS

**ЛЕПТОН**

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!



**14a. SUPER COLLIDE (reprise)**

*(ENGINEERS exit.)*

**JEPHON**

QUARK.

SUPER

CONDUCT YOURSELF, CANDIDATE.

JOB

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

*(Departing.)*

**15. PARTICULATE**

*(QUARK redirects her attention to the control. She increasingly toys around with it.)*

*(ATOM frantically rushes in.)*

**ATOM**

AM I TOO LATE?

*(Noticing QUARK.)*

A POSTULATE DREAMER.

ALWAYS IN THE CLOUDS.

PARTICULARLY EERIE MATTER.

NO OPERATIONS REAL SOON.

THEY'RE ALLOCATING FUNDS.

LIQUIDATED SCIENCE.

PARTLY DUE TO THIS WARY SOCIETY.

*(Hesitantly accepting QUARK.)*

TO ABDICATE, WE MUST NOT.

SATURATE DESERTRON.

I SHALL POSTULATE.

PARTICULARLY AIRY QUARK E.



*(QUARK DJs the control.)*

*[Particles may collide.]*

**ATOM** (cont.)

QUARK... E...

*(Readjusting himself.)*

ARTICULATE THIS BAD NEWS.  
LET'S CONCENTRATE SOLIDS.  
LET US SAVE THIS LAB.  
PARTICLES TO PARTICLES, JUST BREATH.

*[ENGINEERS fill the space.]*

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTISTIC-LY PARTICULAR.

*(QUARK parties on. She feels admiration.)*

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.  
ARTICULATE PARTICULATE. ARTFULLY PARTICULARLY LATE.

<b>16. SLEPTON</b>
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*(ATOM rushes towards QUARK, protesting.)*

**ATOM**

SCIENCE ENDING.  
THEY'RE SHUTTING THE DESERTRON DOWN!

*(ENGINEERS fearfully run away.)*

**QUARK**

QUIT LYING.  
WHAT'S THE MATTER?

**ATOM**

INFER, ATOM.  
*(Motioning towards himself.)*  
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 joyfully tears up.)*

NON-PHYSICIST HAS DRAWN  
HERSELF TO DESERTRON.

*(Embracing ATOM.)*



**BOSON (cont.)**

DEAR ATOM, HERE'S BOSON.  
ACCELERATOR, I RUN.

*(Releasing ATOM. He views 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  
their cash. She reaches for the cash  
herself.)*

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

*(POLITICIANS rabidly bound for the cash.  
They notice BOSON. They quickly adjust  
themselves. They dismiss the cash.)*

**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.



**POLITICIANS (cont.)**

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.)*

**POLITICIANS**

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 addresses ATOM.)*

**BOSON**

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.



**BOSON** (cont.)

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.)*

**16a. SLEPTON (reprise)**

*(ATOM and POLITCIANS depart.)*

**BOSON**

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

*(QUARK recognizes the persona of ЛЕПТОН.)*

*(BOSON reminisces.)*

GOURMETS, DESERTRON.

*(Pushing away QUARK.)*

NOW STRAY, SLEPT ON.

*(Vacating.)*

*(QUARK reclusively perches.)*

**17. BACKSCATTER**

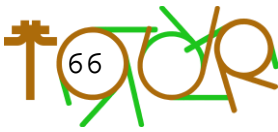
*(ЛЕПТОН eagerly skips in.)*

**ЛЕПТОН**

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!

## ЛЕПТОН

SO UPFRONT.

*(ЛЕПТОН 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* ALIGNED BEYOND THIS  
GEGENSCHNITT.

*(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.  
EXCITATION CIRCUITS AS MAGNETIC FLOWS ALL CORNERS.  
TAKE THE ACCELERATED TOUR!

*(Holding QUARK's hands.)*

*(QUARK pushes away ЛЕПТОН.)*

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!

**ЛЕПТОН**

GOT YOUR BACK.

*(ЛЕПТОН leaves.)*

**QUARK**

HEART SHATTERED.



## 18. ELECTROFORMING (reworking)

SCENE iii

*[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 returns the form.)*

YOU'RE WELCOME. JUST HARD WORK.

*(Handing the helmet to QUARK.)*

*(QUARK joins in with ENGINEERS.)*

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

*(Sitting at their workstation.)*

**ENGINEERS (cont.)**

CONFORM. CONFORM.

*(ATOM sits down. They start testing magnets with the metals.)*

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.

*(Combusting the metals.)*

*(A supervising ENGINEER steps in.)*

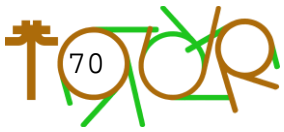
MANAGER. I'M SORRY. FORGIVE ME. FORGET ME. SAVE YOUR LIFE. SAVE YOUR LIFE.

*(Making QUARK put on her helmet.)*

**QUARK**

CONDUCTION! CONDUCTION?

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



## ENGINEERS

DEFORM.

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

<b>19. ANTIMATTER (work-in-progress)</b>
--



## 20. PREON

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

*(ЛЕПТОН tiptoes in.)*

### ЛЕПТОН

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

*(ЛЕПТОН looks through the workstation.)*

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



*(ЛЕПТОН pulls out a lightbulb and wires.)*

**QUARK** (cont.)

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

*(ЛЕПТОН performs the experiment.)*

**ЛЕПТОН**

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.

**ЛЕПТОН**

*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)!*

**ЛЕПТОН**

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.

**ЛЕПТОН**

PREON.

*[The Magnet Factory brightens up.]*

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

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

*[Blackout.]*

*End of Act*



**21. ELEMENTARY PARTICLE**

SCENE i

*[Accelerator]*

Beyond this point, the script is not public. Email the dramatist for the full script.



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