

TOUR

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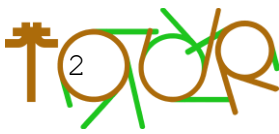
A Musical

by

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## DEVELOPMENT

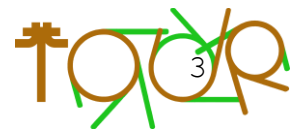
Date	Type	Site	Specific(s)
2015	Idea	Fermilab	The spark of love for particle physics
2017	Writing	Chicago	The start of writing this musical
2020 4-24	Reading (Table)	The 24 Hour Plays	Hosted by Madelyn Paquette <a href="http://tourmusical.com/events/2020-4-24">tourmusical.com/events/2020-4-24</a>
5-16	Reading (Table)	S.I.S.R!	Hosted by Michael Perrie Jr and Lacy Reily <a href="http://tourmusical.com/events/2020-5-16">tourmusical.com/events/2020-5-16</a>
7-17	Reading (Table)	CreateTheater ETC	Hosted by Cate Cammarata <a href="http://tourmusical.com/events/2020-7-17">tourmusical.com/events/2020-7-17</a>
8-29	Reading (Table)	S.I.S.R!	Hosted by Michael Perrie Jr and Lacy Reily <a href="http://tourmusical.com/events/2020-8-29">tourmusical.com/events/2020-8-29</a>

## SYNOPSIS

A physics fable, TOUR is an operatic musical that experiments with tango, pop, choral, and four particles named Quark, Lepton, Boson, and Atom. These standard particles collide and compete with one another in the physics academic and professional field. This follows Quark, an exchange student, as she graduates from her undergraduate degree to her doctorate. During her pursuit to be a physicist, she concentrates on magnetic physics and attracts Professor Boson who soon advances on her, so she rejects. He retaliates by ensuring that there are no paths to a career in physics and she experiences enlightening obstacles. As trouble ensues, she is taken under the wings of her doctoral advisor, Lepton.

The characters are particles, who are searching to become perfect. In physics, particles seek out supersymmetry. Particles want to be perfect spheres. Not unlike a human being. We want to be well-rounded. The analogy is told through personifications of the particles in a nuclear reactor. Their types and class structure are costumed as human students and professors.

Quark is an exchange student, Lepton is her doctoral advisor, and Boson is the professor who tries to stop Quark from getting a career in physics.



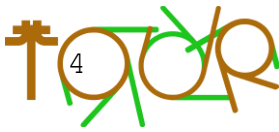
## CHARACTER BREAKDOWN

Workshops/Productions: Casting the principal characters from underrepresented racial minorities are not recommended. Casting the principal characters from underrepresented racial minorities are required.

Character	Vocal Tone & Range
<u>QUARK</u> A student and physicist. Quotidian, Ubiquarian, Antiscian, Rachidian, K?	Musical Mezzo-Soprano
<u>LEPTON</u> A doctoral advisor and lab supervisor. Leaves Electricity Proportional To Obscure Negativity.	Musical Alto
<u>BOSON</u> A professor and lab director. Bright Or Sanctimonious Or Narcissistic.	Musical Baritone – Tenor
<u>ATOM</u> A scholar and right-hand scientist. Attentive Towards Outstanding Matters.	Operatic
<b>Ensemble</b>	
- STUDENTs	- RESEARCH ASSISTANTs
- TECHNICIANs	- PROFESSORs
	- POLITICIANs

## SCENES & SET DESIGNS

Scene	Page	Location	SET   props
i	6	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, scantrons, papers, alarm
ii	48	Desertron	ABANDONED PARTICLE ACCELERATOR operator's control, cash



## MUSICAL NUMBERS

♫ #	Title	Character (s)
1.	<a href="#">Exchange Particle</a>	QUARK   ATOM
2.	<a href="#">Torsion</a>	QUARK   LEPTON
3.	<a href="#">Available Energy</a>	QUARK
4.a.	<a href="#">Tachyon</a>	QUARK   LEPTON   BOSON   ATOM   students
5.	<a href="#">Nuclide</a>	QUARK   BOSON   ATOM
6.	<a href="#">Entanglement</a>	QUARK   BOSON
7.	<a href="#">Crossing Field Lines</a>	QUARK   BOSON
8.	<a href="#">Centration</a>	QUARK   BOSON   research assistants
9.	<a href="#">G</a>	QUARK   LEPTON   ATOM   professors
10.	<a href="#">Anyon</a>	QUARK
11.	<a href="#">Valence</a>	QUARK   LEPTON   ATOM   students
12.	<a href="#">Effusion</a>	QUARK
13.a.	<a href="#">Super Collide</a>	QUARK   LEPTON   technicians
14.	<a href="#">Particulate</a>	QUARK   ATOM   technicians
15.a.	<a href="#">Slepton</a>	QUARK   BOSON   ATOM   politicians
16.	<a href="#">Backscatter</a>	QUARK   LEPTON
17.	<a href="#">Remanence</a>	QUARK

1. EXCHANGE PARTICLE

SCENE i

*[University]*

*[A desk is concealed behind the particle board. The particle board displays a schedule and holds a box of tacks.]*

*(ATOM arrives. They staff 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.)*

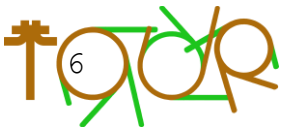
WHAT AM I, PART OF? COURSES FULL?

*(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**

DOWN, UP, BOTTOM, TOP, CHARM, STRANGE.

*(Scanning the schedule.)*

QUARK.

*(QUARK swiftly rips out the schedule.)*

**QUARK**

DID I GET IN...?

*(Reading the schedule.)*

THE LECTURE TAUGHT UNDER BOSON!  
PUPIL UNDER CHILD PRODIGY! HE WHO MAKES LIGHT  
OF ALL EXPERIMENTS. 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.)*

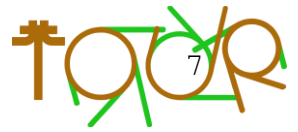
THIS FIELD'S  
HEATED.

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

**QUARK**

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?

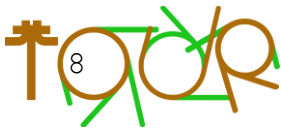
IDEAS COME SO FAR. MATTERS, THEY WILL COME TO ME.

PARTICLE BOARD, THANKS FOR THIS EXCHANGE.

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

<u><b>2. TORSION</b></u>
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*(LEPTON strolls in.)*



*(QUARK collides into LEPTON.)*

*(LEPTON twists herself into a pretzel.)*

**LEPTON**

ДЕРЬМО (der'mo). TORSION.

*(QUARK helps LEPTON up.)*

TWISTED CYKA (súka).

**QUARK**

MEAN FREE PATH.  
MEANT NO HARM.

**LEPTON**

WHY THE RUSHING?

*(QUARK tries to flee.)*

*(LEPTON grabs ahold of QUARK.)*

TAKE COURSE LIGHTLY.

**QUARK**

A DEGREE  
NEEDS ALL THESE  
TORSIONS, TURNS  
TO BE YOU.

*(LEPTON releases QUARK.)*



## LEPTON

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

*(Motioning towards herself.)*

SOON CROWNED DOCTORAL.

*(Directing out.)*

LABS, THEY'RE A BLAST.

*(Adjusting herself.)*

MUST NOT DECAY.  
THE NAME'S LEPTON.

*(Hurrying off.)*

### 3. AVAILABLE ENERGY

## QUARK

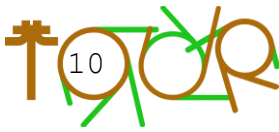
AVAILING MASTER  
ENERGIZED FAILED NEWCOMER.  
WE SHARED A DEVOTION, CAREER IN PHYSICS.  
DISTRIBUTION, FIXED  
AMOUNT OF ENDURANCE 'MONGST  
IDENTICAL PERSONS. ACTIVATE KINEMATICS!

*(Disorderly moving about.)*

FREE AVAILABLE 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 AVAILABLE 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 AVAILABLE 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 adjusts herself.)*

DON'T BLACKMAIL SCEPTICS.  
ENTROPIC TIMES THEN  
CHAOS. PUT WORK AS YOUR PRIME.  
UNIT IS ALWAYS TIME. A DEGRADATION,  
'LECTROSTATICS CLASS.  
AVOID THAT COLLISION COURSE.  
COLLAPSE THROUGH SYNERGY. ENERGIZE POTENTIAL.

#### 4. TACHYON

*(QUARK, ATOM, and STUDENTs gather around.)*

*(ATOM speaks after the long silence.)*

**ATOM**

ON BEHALF OF THE TACET.  
PROFESSOR  
IS REAL SHARP AND TACKY-ISH.

*[The space slightly brightens.]*

TRULY BRIGHT AND TACTFUL  
ON TIME,  
BOSON.

**STUDENTs**

HE SHOULD BE FAST AS LIGHT.  
PROFESSION  
LOST ITS MIND, SIGHT OF US ALL.  
HE'S GLUON TO PHOTON?  
W?  
Z...?

**QUARK**

HE'S ANSWERING EMAILS.

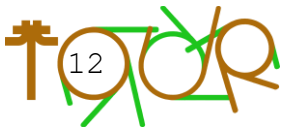
*(STUDENTs tap their heads.)*

**STUDENTs**

TACHYONIC.

*[The space intensely brightens.]*

*(BOSON tactfully arrives. He flips the  
particle board.)*



*[The particle board displays a colourful field line diagram, familiar to the colourful presence earlier.]*

**STUDENT**

PROTONS!

*(BOSON dismisses the answer.)*

*(ATOM tugs at their chest.)*

**STUDENT**

NEUTRONS!

**STUDENT**

ELECTRONS!

*(ATOM lets go of their chest.)*

*[An explosion audibly rings after a long silence.]*

*(QUARK solely hears the explosion.)*

**STUDENT**

PHONONS!

**STUDENT**

BOSON?

*(BOSON seems taken off guard and blushes.)*

### **ATOM**

BORONS... COLOUR!

*(STUDENTs ponder.)*

STASIS!

*(STUDENTs hysterically laugh.)*

*(ATOM seems brokenhearted.)*

*(QUARK sticks out.)*

*(STUDENTs ponder.)*

### **QUARK**

CHROMODYNAMICS.

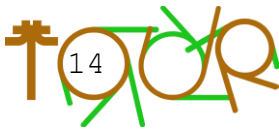
### **BOSON**

TACHYON...

### **STUDENTs**

YOU'RE QUARK!

*(BOSON unites QUARK, ATOM, and STUDENTs.)*



**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  
LABORATORY?

**STUDENTs**

IT'S EXCLUSIVE!  
NO EXPERIENCE!  
SESSION IS FULL!

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

**BOSON**

PERFORM A CONTROLLED EXPERIMENT. FORCE. ATTRACTING.  
USING FERROMAGNETS. PERMANENT DIPOLES. REMOVE FIELDS  
OUTSIDE. DISCIPLES. ADVICE. DON'T REDUCE TO ZERO.  
SPONTANEOUS REACTION. TRY COBALT, YOUR SAKE.  
ELECTRONS. UNPAIRED. COVALENT.

**STUDENTs**

TAU!

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

*(A STUDENT points their magnet at another  
STUDENT.)*

**STUDENT**

COMPASS FACES...

**STUDENTs**

ATTRACTION HERE!

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

**STUDENT**

YOUR FRIDGE RUNNING?

**STUDENTs**

HA, CAUSE MAGNETS!

*(ATOM reaches for another STUDENT.)*

**ATOM**

YOU SEE, MAGNATE.

**STUDENTs**

STILL THE BORON!

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

**BOSON**

PARAMAGNET?

**QUARK**

I WOULD BE HONOURED.

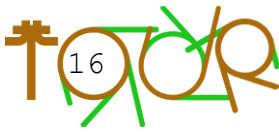
*(Accepting the magnet.)*

**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.)*

*(LEPTON passes the experiment. She appears enjoyably disheveled. She takes a brief moment to orbit ATOM.)*

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

*(Their experiment concludes.)*

<p><u><a href="#">4a. TACHYON (reprise)</a></u></p>
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*(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.)*



**STUDENTS** (cont.)

PROFESSOR'S SPEECHLESS.  
THINK IT OVER!

*(BOSON waves STUDENTS off.)*

WE WILL REPEL!

*(Departing.)*

**5. NUCLIDE**

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

**ATOM**

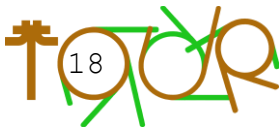
PERHAPS YOU COULD STAY LONGER IF YOU TRIED  
SUPERPOSITION?  
MASSLESS APPEALS DOES NOT LEAVE US TO BE TIGHTLY  
BINDING.  
ENERGY STATES OUR STABILITY ALONG THE YEARS HAVE BEEN  
A NUCLIDE, A RIDE.

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

**BOSON**

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

*(Focusing on QUARK.)*

## 6. ENTANGLEMENT

*(QUARK unveils and gifts the thesis to  
BOSON.)*

*(BOSON reads the thesis.)*

## BOSON

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

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

**BOSON** (cont.)

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?  
LITTLE 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.  
PARTICLE 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 the particle accelerator blueprints to the particle board.)*

EXCEL IN THE ACCELERATOR.

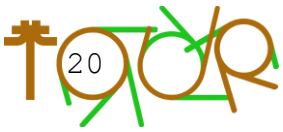
*(Forcing QUARK to attach the field line diagram to the particle board.)*

RESEARCH COLLABORATION.  
INDEPENDENT SCHOLAR.

*(Shrugging off.)*

VACUUM, THERE'S NOTHING TO PROVE—

*(Switching topics.)*



**BOSON** (cont.)

'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?

## 7. CROSSING FIELD LINES

**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**

I CROSSED?

*(Extending his arm to QUARK.)*

I CROSSED?

*(QUARK draws the line with her fingers.)*

**BOSON** (cont.)

I CROSSED?

*(Crossing the line.)*

ENTERED.

*(Pointing out the space.)*

YOU ENTERED.

*(Pointing to his temple.)*

YOU ENTERED.

*(Pointing to his heart.)*

WE LOOP.

*(Walking in a helix-like path.)*

WE LOOP.

*(Pacing back and forth.)*

MONOPOLES.

*(QUARK disapproves.)*

MONOPOLES...

CROSSED FIELD LINES.

*(Retreating to the desk.)*

END TOUR.

END TOUR.

END TOUR.

END OUR...

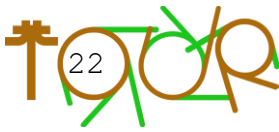
END OUR TOUR.

END OUR TOUR.

**QUARK**

YOU ARE MOVING TOO FAST FOR ME...

*(Motioning to herself.)*



**QUARK** (cont.)

I'M RANDOM...

OUR FIELD LINES CAN'T EVER BE CROSSED.

*(BOSON grabs the thesis. He takes a pen. He crosses the thesis with a stroke of the pen. He hands the thesis to QUARK.)*

*(QUARK grows enraged. She hesitantly discards the thesis. She silently expresses that she has the grit to finish her degree.)*

## 8. CENTRATION

*(BOSON takes out a physics packet. He throws the packet at QUARK.)*

**BOSON**

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

*(QUARK picks up the packet.)*

COULD YOU CONCENTRATE?  
STUDENT.

*(QUARK begins solving.)*

OH, YOU INFURIATE.  
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 DETERIORATION.  
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 INDETERMINC-.  
 PRIMORIDAL 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?

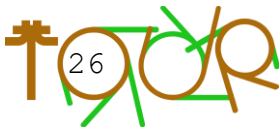
*(QUARK brokenheartedly reads the packet.)*

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.)*

<u><b>9. G</b></u>
--------------------

*(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.

**PROFESSOR**

SUCCESS IS THAT, NOT WITHIN YOUR VERY REACH.

**PROFESSOR**

B'S STAY IN TRASH BINS OF HISTORY.

**PROFESSOR**

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

**ATOM**

WHAT THE F'S, DO ATTEMPT QUANTUM SUICIDE.

*(QUARK sits up.)*

**PROFESSOR**

GRAVITY.

**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.)*

*(LEPTON rushes in. She orbits ATOM.)*

**LEPTON**

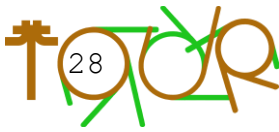
БЛИН (blin).  
I'M LATE, SORRY, PROFESS—...

*(Noticing QUARK.)*

WHAT A STRANGE DAY TO SELECT DOCTORATE CANDIDATES.

*(Heading to QUARK.)*

CHARMING MATTERS WITHIN YOU.  
FAMILIARITY.



*(LEPTON recognizes QUARK.)*

**LEPTON** (cont.)

YOU MADE ME MISS IT!  
YOU SAVED ME THE TROUBLE OF HAVING MISSED OUT ON AN  
ATOM SMASHING ACCIDENT.

*(Embracing QUARK.)*

*(PROFESSORs motions for LEPTON to not  
disclose that information.)*

**PROFESSORs**

AFFLICT.

**PROFESSOR**

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

**LEPTON**

I KNOW G-FORCE BEING

**PROFESSORs**

YOU'LL KNOW G-FORCE.

**PROFESSOR**

A FORMER DOCTORAL  
CANDIDATE.

A BURDEN SO PECULIAR.  
WEAK.

**ATOM**

PUPIL BRINGS LONG  
DAYS, SHORT NIGHTS,  
ATOMIC WEEKS.

**LEPTON** (cont.)

PHYSICS, CLASSIC, QUANTUM,  
BASIC, NEVER SLEEP.

**PROFESSOR**

EQUATIONS, UNFIT SO  
YOU HAVE TO TWEAK.

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

**LEPTON**

AT THE VERY LEAST, SHE HAS PRINCIPLED HALF SPINS!

**ATOM**

SPIN IT.

**PROFESSORS**

FLUX, GIVEN NONE.

**PROFESSOR**

HER VARIABLE IS JUST A MASS.

**LEPTON**

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.

*(LEPTON returns the packet to ATOM.)*

**ATOM**

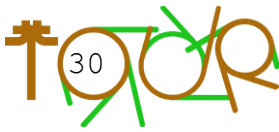
GRAVITY.

**LEPTON**

FELT I FORCE THESE G'S.

**PROFESSORS**

FORCE YOU'LL FEEL ARE  
G'S.



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

*(QUARK flounders around.)*

*(ATOM and PROFESSORS humbly depart.)*

**LEPTON**

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!

**LEPTON**

NAME?

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

QUARK?

SEEMS TO HAVE A LACK OF SPIN.

FIRM.

I AM IN ANY CIRCLES, ORBITALS.

DPVT (drug).

YOU'RE A FORCE TO BE WEIGHTED UPON THEE!

*(Stopping the momentum.)*

STATE. HAVE TO SPIN TO!

*(Spinning off.)*

## 10. ANYON

### QUARK

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

*(Twirling.)*

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

*[The space brightens.]*

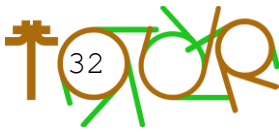
BOSON...

*(Slowing the spin.)*

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

## 11. VALENCE

*(STUDENTS wander about.)*



**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

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

**QUARK**

OSCILLATIONS DOC!

**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**QUARK**

ALTERNATING CURRENTS?

**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**QUARK**

SPECIAL STATES TODAY?

**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**QUARK**

ANY PHENOMENA?



**STUDENTs**

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION  
HAUL.

**LEPTON**

ALARM, INFREQUEN-

*(Chucking the alarm.)*

**STUDENTs**

THIS EMISSION LEADS TO  
GROUND STATE.

THAT ADMISSION LEAVES  
YA GROUNDED.

*(LEPTON hands a paper to QUARK.)*

**LEPTON**

SEE

**STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

**LEPTON**

TO INTEGRATION.

**STUDENTs**

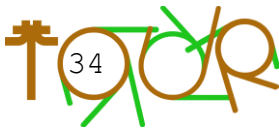
WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

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

**LEPTON**

DERIVE ON.



### **STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

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

### **LEPTON**

POSTULATE. A POS-  
THINK SPHERE.

### **STUDENTs**

WHO IS THIS EDUCATED  
SPOIL?

WHAT A LOW ENERGY  
LEVEL.

### **QUARK**

CHECK VALIDITY.

### **STUDENTs**

JUMP UP THOSE ENERGY  
LEVELS!

BUMP OUT SOME ENDLESS  
CREDENTIALS!

*(LEPTON eyes STUDENTs.)*

### **QUARK**

ASSUME MY MOTIVE.  
FIRST ORDER NOTED.

### **STUDENTs**

MOTIVATION.  
MAKE ASSUMPTIONS.  
NATURAL EQUATIONS.  
DIRECT NOTATIONS.

*(QUARK disorderly eyes STUDENTs.)*

**QUARK** (cont.)

FRESH SCHOLARS UNVEILED.

SURVEILLANCE.

SERVE VALENCE.

**STUDENTS** (cont.)

FRESH GENERATIONS.

INFORMATION.

OBSERVATION.

SHELLED ELECTRONS!

**LEPTON**

TEACHING ASSISTANT.

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

THESE STUDENTS

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

SUCK ENERGY

**STUDENTS**

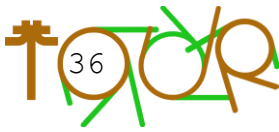
WE HAVE AN IMPORTANT QUESTION.

**LEPTON**

OUT OF YOU.

**STUDENTS**

WE HAVE AN IMPORTANT QUESTION.



**QUARK**

STATE, I'M FAMILIAR.

**STUDENTs**

THIS MIGHT BE A  
STUPID QUESTION.

*(QUARK coalesces STUDENTs.)*

**QUARK**

CONVECTION, IT'S CHILL.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**QUARK**

OPTICAL, LOOKS GOOD.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**QUARK**

BASICALLY, I'M HIP.

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**QUARK**

I'LL ADDRESS ALL QUESTIONS!

**STUDENTs**

GEE PROFESSOR LEPTON.

QUARK. QUARK.

**LEPTON**

SO FAILING. ASK IF

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

QUESTIONS 'RISE BRIEFLY

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

THEN YOU SNUB. NO

**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

**LEPTON**

NEED VALIDATION.

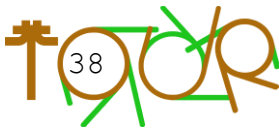
**STUDENTs**

THANK YOU, QUARK!  
THANK YOU, QUARK!

NO THANKS TO YOU,  
LEPTON.

*(Becoming rigid.)*

*(ATOM struts in.)*



**ATOM**

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

**STUDENTs**

EXACTLY WHAT IS SPIN?  
QUARK?

*(QUARK feels flabbergasted.)*

**QUARK**

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

**ATOM**

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

**STUDENTs**

EXACTLY WHAT IS SPIN?  
T A?

*(STUDENTs wobble.)*

**QUARK**

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

*(Confronting ATOM.)*

**ATOM**

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

**STUDENTs**

EXACTLY WHAT IS SPIN?  
TEACHER?

**QUARK**

SPACETIME FABRICATION BRINGS ABOUT LIMITATIONS, SO  
LET'S

**ATOM**

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

**STUDENTs**

WHAT DO YOU HAVE IN  
 CORE FOR US?

*(QUARK herds STUDENTs together.)*

**QUARK**

MOVE TO STATE FORMATION, MIXED VALENCE WITHIN  
 FEMTOSECONDS, HEAR

**ATOM**

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

**STUDENTs**

WHAT DO YOU HAVE IN  
 ACCORDANCE?

**QUARK**

ALL THAT, QUASI-BORONS? AN EXAMINATION FILLED

**ATOM**

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

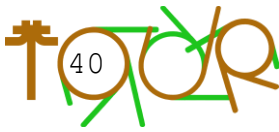
**STUDENTs**

WHAT DO YOU HAVE  
 THAT'LL SHOCK OUR  
 CORE?

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

**QUARK**

WITH HOLES IN SCANTRONS.



**ATOM**

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

**STUDENTs**

WHAT DO YOU EXPECT  
FROM NUCLEI?

*(ATOM orbits QUARK.)*

**QUARK**

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

**ATOM**

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

**STUDENTs**

WILL THIS MOMENTUM BE.  
CURVED?  
  
FAILURE?

**QUARK**

I'LL STOP WITH SURVEILLANCE WHEN THIS BASIC UNIT JUST  
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.)*



**ATOM** (cont.)

ENERGIES FOR  
THE VALENCE!

**STUDENTS** (cont.)

CONTRIBUTION.  
CONTRIBUTION.

*(ATOM passes around the cheat sheets.)*

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

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

*(LEPTON holds back QUARK.)*

**LEPTON**

THEY'LL GET ELECTRONS.

*(STUDENTS pass around scantrons.)*

**STUDENTS**

DISTRIBUTION OF THE SCANTRONS.

**LEPTON**

THEY'LL GROUP THE ELEMENTS.

*(STUDENTS group together.)*

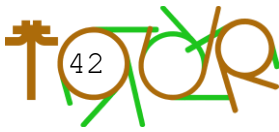
**STUDENTS**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL CONFIGURATE.



*(STUDENTs form circles.)*

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL COME OUT THEIR SHELLS.

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

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

THEY'LL FIND OUT THEY'RE VALIANT.

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

**STUDENTs**

NODES, ORBITALS.  
NODES, ORBITALS.

NEUTRAL CIRCLES.  
NEUTRAL CIRCLES.

**LEPTON**

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

**STUDENTs**

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

*(QUARK openly dismisses LEPTON.)*

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

**LEPTON**

DON'T TAKE IT.

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

*(Handing the papers to QUARK.)*

*(QUARK snubs STUDENTs.)*

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.

**LEPTON**

WRONG ENERGY LEVEL.

*(Gathering all the papers from STUDENTs.)*

**STUDENTs**

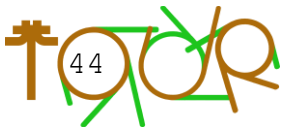
VALENCE ELECTRONS.                      VALIDATION.  
VALENCE ELECTRONS.                      VALIDATION.

**LEPTON**

VALIDITY.

**STUDENTs**

VALENCE ELECTRONS.                      VALIDATION.



THERE'S

**LEPTON**

VALENCE ELECTRONS.

**STUDENTs**

VALIDATION.

NO NEED SEARCHING

**LEPTON**

VALENCE ELECTRONS.  
VALENCE ELECTRONS.

**STUDENTs**

VALIDATION.  
VALIDATION.

VALIDITY.

**LEPTON**

VALENCE ELECTRONS.

**STUDENTs**

VALIDATION.

THE HEART

**LEPTON**

VALENCE ELECTRONS.

**STUDENTs**

VALIDATION.

OF PHYSICS

**LEPTON**

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

PUMPS

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

VALIDITY.

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

NEED

**STUDENTs**

VALENCE ELECTRONS.

VALIDATION.

**LEPTON**

NO VALIDATION.

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

**STUDENTs**

VALENCE ELECTRONS.

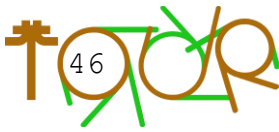
VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

JUMP!

BUMP!



*(LEPTON departs.)*

*(STUDENTS orbit away.)*

## 12. 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.

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.

**QUARK** (cont.)

JUST GO EFFUSION.

I SWEAR TO EFFUSION.

YOU ALL CAN EFFUSION IT!

*(Preparing for a journey.)*

13. SUPER COLLIDE

SCENE ii

*[Desertron]*

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

**LEPTON**

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 NATURAL PHYSICS HAS BEEN TRAINED TO GET YOU COFFEE.

*(LEPTON wanders off.)*

END UP WITH DESERTS.

*(Noticing LEPTON's disappearance.)*

NOT THE COURSE TO DESERT THIS DOCTORATE!

*(Motioning towards herself.)*

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



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

# **LEPTON**

HYPOTHESIS THAT THIS  
HEARTLAND OF  
INNOVATION BRINGS FREE  
ENERGY. WHERE NOT JUST  
MATTER EXISTS, 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, POSITIVE NEGATIVE,  
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.)*

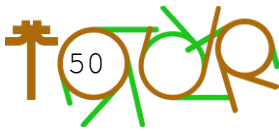
БЛЯДЬ (blyat).  
GIVE ME A MOMENT.  
HOLD UP UNIVERSE!

*(Trying to raise QUARK.)*

QUARK.

*[Particles collide.]*

BEHOLD THE DESERTRON!  
SUPERCONDUCTING SUPER COLLIDER!  
A SMASH.



*[Particles move along and around.]*

## **QUARK**

STRANGE.  
FERMIONS.  
MUONS.  
'TRINOS.  
GLUONS.  
CHARM.

## **QUARK**

QUANTA.

## **TECHNICIANs**

RAYS!

## **QUARK**

*(Feeling matters.)*

ENERGY BUNDLES.

## **QUARK**

STANDARD

## **TECHNICIANs**

FORCE!

## **QUARK**

MODEL.

*(Growing antsy.)*

THEORIZED

## **QUARK**

'NOUGH.

## **TECHNICIANs**

NOWT.

*(QUARK deactivates the control.)*

*(TECHNICIANS collide with one another.)*

### **TECHNICIANS**

QUARK! JUST GOT YOURSELF ROLLING!	
SPIN PARTICLES AT HOME.	GET PARTICLES 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?

### **LEPTON**

COL-

*(TECHNICIANS collide and gather.)*

### **TECHNICIANS**

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

### **LEPTON**

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

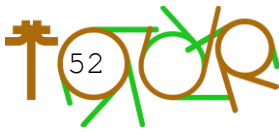
*(Interacting and colliding.)*

### **TECHNICIANS**

LUXURY SCIENCE IN A DESERT!

*(Interacting and colliding.)*

*(QUARK rein in the particles.)*



**LEPTON**

AT DESERTRON.

**QUARK**

SUPERNATURAL.

**LEPTON**

CONDUCT YOURSELF.

**QUARK**

SUPERVISION.

**TECHNICIANs**

ENERGY, CAN YOU FEEL  
IT, GAIN THE MAGNET!

REACH THE SPEED OF

LIGHT!

ANTI-QUARK MATTERS

**LEPTON**

COLLIDE OTHERS.

SUPER COL-

*(Setting QUARK on a collision course.)*

'LIDE!

HER WAY OUT BARYONS! SUPER COLLIDE BEYOND!

SUPERCONDUCTIVITY MEDIUM

MODELLED!

SMASH THE PARTICLES 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!

**13a. SUPER COLLIDE (reprise)**

*(TECHNICIANs exit.)*

**LEPTON**

QUARK.  
 SUPER  
 CONDUCT YOURSELF, CANDIDATE.  
 JOB  
 INTERVIEW, I'VE GOT TO GO. IT'S MY COLLISION COURSE.  
*(Departing.)*

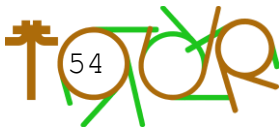
**14. PARTICULATE**

*(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 QUARKY.  
*(QUARK DJs the control.)*  
  
*[Particles may collide.]*



**ATOM** (cont.)

QUIRKY.

*(Readjusting himself.)*

ARTICULATE THIS BAD NEWS.

LET'S CONCENTRATE SOLIDS.

LET US SAVE THIS LAB.

PARTICLES TO PARTICLES, JUST BREATHE.

*(TECHNICIANS fill the space.)*

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTISTICALLY PARTICULAR.

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

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTICULATE PARTICULATE.

ARTICULATE PARTICULATE. ARTFULLY PARTICULARLY LATE.

**15. SLEPTON**

*(ATOM rushes towards QUARK, protesting.)*

**ATOM**

SCIENCE ENDING.

THEY'RE SHUTTING THE DESERTRON DOWN!

*(TECHNICIANS 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**

OSCILLATIONS.

*(QUARK feels the nightmares.)*

*(BOSON brightly returns.)*

*(ATOM joyfully tears up.)*

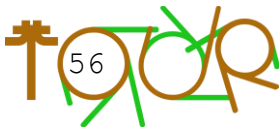
NON-PHYSICIST HAS DRAWN  
HERSELF TO DESERTRON.

*(Embracing ATOM.)*

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.)*

**BOSON** (cont.)

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**

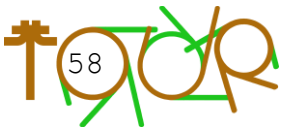
NO ACTIONS REQUIRED.  
PASSION, BIT QUANTUM, FULFILLED.  
OUR TAXES, DO BLOW IT.  
THEIR FUNDS, GO SLOW.

**POLITICIANS**

A SLEPTON!

*(Counting the cash.)*

THESE PARTICLES.  
THEY'RE PARTLY CHORES.  
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.



**POLITICIANS** (cont.)

I WILL OUTCLASS, NOWT TO COMMIT.  
ART, ALSO MAKES THE WORLD

**QUARK**

THERE'LL BE PEACE.  
RENEWABLES.  
SOME POETRY.  
THERE IS ART  
IN PARTICLES!

**POLITICIANS**

SICK!

*(TECHNICIANS rush in to collide with one  
another.)*

*(POLITICIANS shove TECHNICIANS out of the  
space.)*

**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...

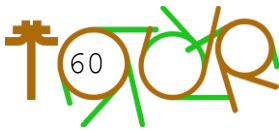
*(BOSON addresses ATOM.)*

**BOSON**

LISTEN HERE BUM,  
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, ACCELERATOR.

*(ATOM riles up.)*

PARTICLES 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.

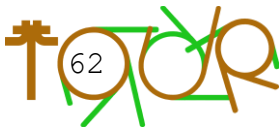
**POLITICIANS**

SUM.

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

**ATOM**

NUCLEAR NOW!



*(ATOM tears 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.)*

ENERGIES, RUN FREE.

**POLITICIANS**

SLEEP IT OFF!  
SCIENCE DON'T NEED FUNDS!

*(QUARK weeps.)*

**POLITICIANS**

CRY AWAY.  
PHYSICS GONE!

PHYSICS DEAD!

**BOSON**

DO SLEPTON IT.  
SUPER COL- WHAT, SQUARK.

**POLITICIANS**

GO AWAY... GO DECAY...

**BOSON**

SUPER COL-  
SUPER COL-  
SUPER DEFUNDED, DESERT IT!  
SLEEP ON IT.  
SLEEP ON IT.  
SLEPTON.

**POLITICIANS**

DESERTRON'S DONE! SUPER GOODBYE!

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

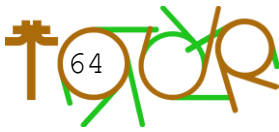
<u><b>15a. SLEPTON (reprise)</b></u>
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*(ATOM and POLITICIANS depart.)*

**BOSON**

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

*(QUARK recognizes the persona of LEPTON.)*



*(BOSON reminisces.)*

**BOSON** (cont.)

GOURMETS, DESERTRON.

*(Pushing away QUARK.)*

NOW STRAY, SLEPT ON.

*(Vacating.)*

*(QUARK reclusively perches.)*

## 16. BACKSCATTER

*(LEPTON eagerly skips in.)*

**LEPTON**

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!

**LEPTON**

SO UPFRONT.



*(LEPTON looks around the void.)*

### **LEPTON**

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!

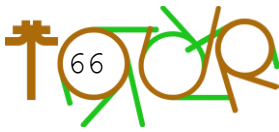
*(Orbiting QUARK.)*

*(QUARK pushes away LEPTON.)*

MY LOVE FOR PARTICLES MADE YOU REPELLED.  
FIND HOME IN SOME MAGNET FACTORY.  
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!

**LEPTON**

GOT YOUR BACK.

*(LEPTON leaves.)*

**QUARK**

HEART SHATTERED.

*(Perching.)*

### 17. REMANENCE

*(QUARK detects the emptiness.)*

**QUARK**

THERE'S NOTHING TO FERRO-  
CAREER TO IRON OUT.  
I CAN'T EVEN MAKE SENSE.  
LOST MAGNETIC FIELD.  
ALL I AM, REMANENCE.  
I JUST BREAK COMPASSES.  
MAGNETISM WILL KILL.  
THIS FIELD'S REPULSIVE  
TO MY OWN EXISTENCE, WHICH SHOULD, NEVER BE REMEMBERED?

*(Heading to the magnets littering the ground.  
She hesitantly picks up the magnets. She  
returns to the desk.)*

ARE MY FUNDAMENTAL PRINCIPLES TO BRING GRAVITATION?  
A DIRE SITUATION BASED ON STRONG, WEAK INTERACTIONS?

*(Observing the magnets. She puts together a  
single magnet. She slams the magnet on the  
desk.)*

*[The desk splits. Each side repels each  
other. Packets disperse out and flutter  
about.]*

**QUARK** (cont.)

WHAT I WAS, REMANENCE.  
I'LL BREAK ALL COMPASSES.  
MAGNETS ARE NOT FOR ME.

*(Pulling the tacks off the particle board.  
She tosses each of the tacks onto the  
ground.)*

PARTICLE'S MY SOUL!

*(QUARK sits. She grabs the magnet. She tries  
to magnetize the distant tacks.)*

*[Blackout.]*

*Close Circuit*