

DIRECTOR'S SCRIPT

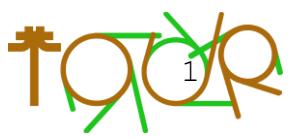


Book, Music, and Lyrics
DAVID QUANG PHAM

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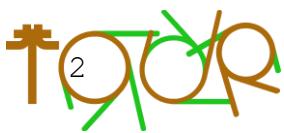


TOUR

A Musical

by

David Quang Pham

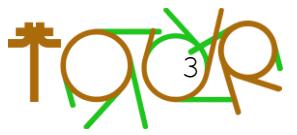


THANK YOU

Name	Role
Emily Johnson	Data Scientist
Marcos "Danny" Caballero	Professor of Electromagnetism
Montana Earegood	Copyeditor
Ruthann Gregory	Physicist
Janelle Lawrence	Operatic/Musical Mentor
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
Kami Visitsak	Originated Singer of Quark
Diana Easter	Originated Singer of Лептон
Brian Egland	Originated Singer of Boson
Rina Lubit	Originated Singer of Atom

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.
2019 12	Discussion	New York	Reg E. Gaines of the Downtown Urban Arts Festival restructured the entire story.
2020 4-24	Reading (Table)	The 24 Hour Plays	Hosted by Madelyn Paquette. tourmusical.com/events/2020-4-24
5-16	Reading (Table)	S.I.S.R!	Hosted by Michael Perrie Jr and Lacy Reily tourmusical.com/events/2020-5-16
7-17	Reading (Table)	CreateTheater ETC	Hosted by Cate Cammarata. tourmusical.com/events/2020-7-17
8-29	Reading (Table)	S.I.S.R!	Hosted by Michael Perrie Jr and Lacy Reily tourmusical.com/events/2020-8-29

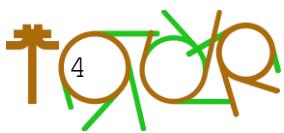


SYNOPSIS

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. By the end of act one, they all pass college and get jobs at the particle accelerator. In the end of act two, they all die in the accelerator and rise as God Particles.

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, Лептон 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	Gender
<u>QUARK</u> A student and physicist.	Musical Mezzo-Soprano	Woman
<u>ЛЕПТОН</u> (lepton) A doctoral advisor and lab supervisor.	Musical Alto	Woman
<u>BOSON</u> A professor and lab director.	Musical Baritone – Tenor	Man
<u>ATOM</u> A scholar and right-hand scientist.	Operatic	Any
Ensemble		
- STUDENTS - TECHNICIANS	- RESEARCH ASSISTANTS - POLITICIANS	- PROFESSORS - 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.

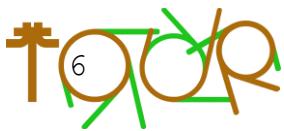
Performer portraying Лептон: She soils her science gear when she is working, but when she is not, she wears much more dull clothes. She dresses up as a rancher near the Desertron. She wears her orange helmet at the Accelerator.

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 technicians: The orange clothes and safety gear are for physics.

MUSICAL NUMBERS

#	Title	Character(s)
1.	<u>Eigen</u>	ATOM
2.	<u>Symmetry</u>	ЛЕПТОН BOSON ATOM students
3.	<u>Exchange Particle</u>	QUARK ATOM
4.	<u>Torsion</u>	QUARK ЛЕПТОН
5.	Available Energy	QUARK
6.a.	Tachyon	QUARK BOSON ATOM ЛЕПТОН students
7.	Nuclide	QUARK BOSON ATOM
8.	<u>Entanglement</u>	QUARK BOSON
9.	Crossing Field Lines	QUARK BOSON
10.	Centration	QUARK BOSON research assistants
11.	G	QUARK ЛЕПТОН ATOM professors
12.	Anyon	QUARK
13.	<u>Valence</u>	QUARK ЛЕПТОН ATOM students
14.	<u>Effusion</u>	QUARK
15.a.	Super Collide	QUARK ЛЕПТОН technicians
16.	<u>Particulate</u>	QUARK ATOM
17.a.	Slepton	QUARK BOSON ATOM politicians technicians
18.	<u>Backscatter</u>	QUARK ЛЕПТОН
19.	Electroform	QUARK ATOM technicians
20.	Remanence	QUARK
21.a.	Preon	QUARK ЛЕПТОН
22.	Mole	QUARK ЛЕПТОН BOSON technicians
23.	Elementary Particle	QUARK ATOM
24.	Bring the Conductivity	QUARK ЛЕПТОН
25.	Mass Charge Spin	QUARK ЛЕПТОН BOSON ATOM
26.	Quantum	QUARK ЛЕПТОН BOSON ATOM technicians
27.	Fusion	QUARK BOSON ATOM
28.	Synchrotron	QUARK BOSON technicians
29.	Hypercharge	QUARK ЛЕПТОН ATOM technicians
30.	Isospin	QUARK ЛЕПТОН BOSON ATOM
31.	Subatomic	QUARK ATOM technicians



MUSICAL NUMBERS (cont.)

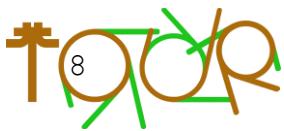
♪#	Title	Character(s)
32.	Meson	QUARK BOSON ATOM
33.	Pion	QUARK ATOM
34.	Deuterium	ATOM
35.	Electron	QUARK ЛЕПТОН technicians
36.	Proton	QUARK BOSON
37.	Fission	QUARK BOSON ATOM
38.	Parity	QUARK BOSON technicians
39.	<u>Baryon</u>	QUARK ЛЕПТОН ATOM
40.	<u>Decay</u>	QUARK particles
41.	Supersymmetry	QUARK ЛЕПТОН BOSON ATOM particles
42.	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 scantrons, papers, alarm
I ii 53	Desertron	ABANDONED PARTICLE ACCELERATOR operator's control, cash
I iii 72	Magnet Factory	DESK holding magnets, metals, a light bulb, wire
II 84	Accelerator	COLLIDER papers, pens, operator's control, magnets
III 124	Quantum World	COLLIDER



ACT I



1. EIGEN

SCENE i

[University]

(ATOM arrives. They find the spots to quantum tango.)

2. SYMMETRY

(STUDENTS bring in a particle board and a desk. They conceal the desk behind the particle board.)

[The particle board displays a schedule, holds a box of tacks.]

(STUDENTS disorderedly orbit ATOM.)

ATOM

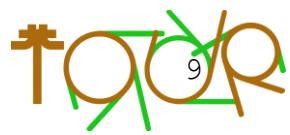
PARTICLES.
YOU ARE NOT
SYMMETRICAL
PARTLY DUE
TO ME,

STUDENTs

PROTON. NEUTRON. ELECTRON. ATOM!

ATOM

ATOMIC DISORGANIZATION.



(*STUDENTS increasingly grow orderly.*)

(*ЛЕПТОН rushes in, carrying the scantrons.
She orbits ATOM. She hands the scantrons to
STUDENTS. She wildly roams around.*)

ЛЕПТОН

THESE SCHOLARS.
ALL WILL SPARK
WELL-ROUNDEDNESS IN
PART FROM
SUBJECTS,

STUDENTS

ELECTRON. MUON. TAU. NEUTRINOS. LEPTON!

ЛЕПТОН

UNCOVERED WITHIN THE SCATTERING.

(*Dumping the scantrons into ATOM's arms.*)

[*The space brightens.*]

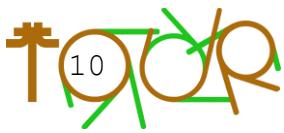
(*BOSON strolls in.*)

BOSON

ENLIGHTEN.
I HEAR NEWS.
AN EXCHANGE STUDENT.
BRIGHTER
THAN ME.

STUDENTS

PHOTON. GLUON. W. Z. BOSON!



BOSON

BE READY FOR A DIFFERENT WAVELENGTH.

STUDENTs

SYMMETRY.
WE DREAM TO BE WELL-ROUNDED.
WE'LL BE A PERFECT SPHERE.

(Barely spinning.)

ATOM

PARTICLES.
STABLE WORLD.
OSCILLATIONS!

(Greeting the world by waving their arm.)

PARTLY DUE
TO ME,
I MADE YOU, EVERYTHING ABOUT YOU.

[A colourful presence spills into the space.]

(STUDENTs sense the colourful presence.)

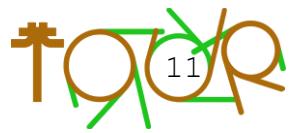
STUDENTs

SYMMETRY.
WE'LL COME AROUND FULL CIRCLE.
WE SHALL BEGIN THE TOUR.

(Scattering around.)

(ЛЕНТОН takes the scantrons from ATOM. She scatters away.)

(BOSON intriguingly observes. He departs.)



(ATOM, speechlessly, mouths along the strange and sudden rings of the xylophone.)

(STUDENTS scatter away.)

(ATOM trip over invisible strings and lose their footing. They run themselves into the particle board to keep balance.)

3. EXCHANGE PARTICLE

(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.



(ATOM scans the schedule on the particle board.)

ATOM

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.*)

4 . TORSION

(*ЛЕНТОН strolls in.*)



(*QUARK collides into ЛЕПТОН.*)

(*ЛЕПТОН twists herself into a pretzel.*)

ЛЕПТОН

ДЕРЬМО (der'mo). TORSION.

(*QUARK helps ЛЕПТОН up.*)

TWISTED СУКА (súka).

QUARK

MEAN FREE PATH.

MEANT NO HARM.

ЛЕПТОН

WHY THE RUSHING?

(*QUARK tries to flee.*)

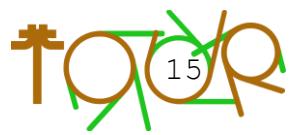
(*ЛЕПТОН grabs ahold of QUARK.*)

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 DOCTORAL.

(Directing out.)

LABS, THEY'RE A BLAST.

(Adjusting herself.)

MUST NOT DECAY.
THE NAME'S ЛЕПТОН.

(Hurrying off.)

5. AVAILABLE ENERGY

QUARK

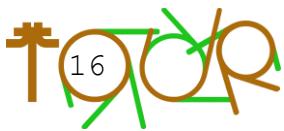
AVAILING MASTER
ENERGIZED FAILED NEWCOMER.
WE SHARED A DEVOTION, CAREER IN PHYSICS.
DISTRIBUTION, FIXED
AMOUNT OF ENDURANCE 'MONGST
IDENTICAL PERSONS. ACTIVATE KINEMATICS!

(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.

6. 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.

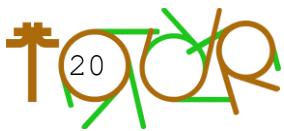
BOSON

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.)

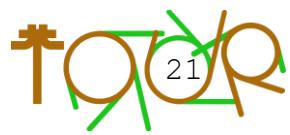
(A STUDENT points their magnet at another STUDENT.)

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.*)

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

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

(*Their experiment concludes.*)

6a. TACHYON (reprise)

(*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.*)

7. 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.)

8 . 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.)

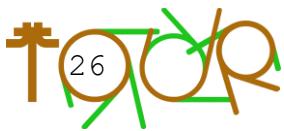
RESEARCH COLLABORATION.

INDEPENDENT SCHOLAR.

(Shrugging off.)

VACUUM, THERE'S NOTHING TO PROVE—

(Switching topics.)



26

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?

9. 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.*)

10. 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.)

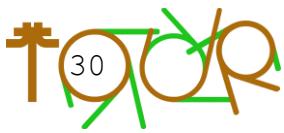
IN NAME OF CENTRATION.
WHY THE INFURATION?
LEADS TO DETERIORATION.
CONCENTRATE.

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.*)

11. G

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

ATOM

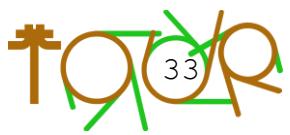
GRADES DO NOT FIT THE CURVATURE, QUARK.

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.*)

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

ЛЕПТОН

БЛИН (blin).

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

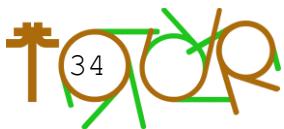
(*Noticing QUARK.*)

WHAT A STRANGE DAY TO SELECT DOCTORATE CANDIDATES.

(*Heading to QUARK.*)

CHARMING MATTERS WITHIN YOU.

FAMILIARITY.



(ЛЕПТОН recognizes QUARK.)

ЛЕПТОН (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 ЛЕПТОН to not disclose that information.)

PROFESSORS

AFFLICT.

PROFESSOR

FORCE CLASSIFIED, JEEZ.

BRIGHT ADVISOR, ЛЕПТОН.

FIND ONE UNBENT.

NOT THIS DELINQUENT.

ЛЕПТОН

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.

ЛЕПТОН (cont.)

PHYSICS, CLASSIC, QUANTUM,
BASIC, NEVER SLEEP.

PROFESSOR

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

SPIN IT.

PROFESSORS

FLUX, GIVEN NONE.

PROFESSOR

HER VARIABLE IS JUST A MASS.

ЛЕПТОН

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.

(ЛЕПТОН returns the packet to ATOM.)

ATOM

GRAVITY.

ЛЕПТОН

FELT I FORCE THESE G'S.

PROFESSORS

FORCE YOU'LL FEEL ARE
G'S.



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(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.

ДРУГ (drug).

YOU'RE A FORCE TO BE WEIGHTED UPON THEE!

(Stopping the momentum.)

STATE. HAVE TO SPIN TO!

(Spinning off.)

12. ANYON

QUARK

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

(Twirling.)

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

[The space brightens.]

BOSON...

(Slowing the spin.)

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

13. VALENCE

(STUDENTS wander about.)



STUDENTs

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION HAUL.

IT'S HIGHER ENERGY LEVEL.

THIS HIGHER EDUCATION HAUL.

(ЛЕНТОН 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.

ЛЕНТОН

ALARM, INFREQUEN-

(Chuckling the alarm.)

STUDENTs

THIS EMISSION LEADS TO GROUND STATE.

THAT ADMISSION LEAVES YA GROUNDED.

(ЛЕНТОН hands a paper to QUARK.)

ЛЕНТОН

SEE

STUDENTs

WHO IS THIS EDUCATED SPOIL?

WHAT A LOW ENERGY LEVEL.

ЛЕНТОН

TO INTEGRATION.

STUDENTs

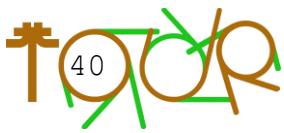
WHO IS THIS EDUCATED SPOIL?

WHAT A LOW ENERGY LEVEL.

(ЛЕНТОН dumps the paperwork into QUARK's arms.)

ЛЕНТОН

DERIVE ON.



STUDENTs

WHO IS THIS EDUCATED
SPOIL?

WHAT A LOW ENERGY
LEVEL.

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

ЛЕНТОH

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!

(ЛЕНТОH 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!

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.

QUARK. QUARK.

QUARK

OPTICAL, LOOKS GOOD.

STUDENTs

GEE PROFESSOR ЛЕПТОН.

QUARK. QUARK.

QUARK

BASICALLY, I'M HIP.

STUDENTs

GEE PROFESSOR ЛЕПТОН.

QUARK. QUARK.

QUARK

I'LL ADDRESS ALL QUESTIONS!

STUDENTs

GEE PROFESSOR ЛЕПТОН.

QUARK. QUARK.

ЛЕПТОН

SO FAILING. ASK IF

STUDENTs

THANK YOU, QUARK!
THANK YOU, QUARK!

NO THANKS TO YOU,
ЛЕПТОН.

ЛЕПТОН

QUESTIONS 'RISE BRIEFLY

STUDENTs

THANK YOU, QUARK!
THANK YOU, QUARK!

NO THANKS TO YOU,
ЛЕПТОН.

ЛЕПТОН

THEN YOU SNUB. NO

STUDENTs

THANK YOU, QUARK!
THANK YOU, QUARK!

NO THANKS TO YOU,
ЛЕПТОН.

ЛЕПТОН

NEED VALIDATION.

STUDENTs

THANK YOU, QUARK!
THANK YOU, QUARK!

NO THANKS TO YOU,
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?

(*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

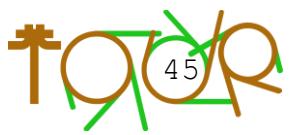
YOU CAN'T SPIN THIS.
YOU CAN'T SPIN THIS.
NEED TO MENTION.
YOU CAN'T SPIN US.

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.)

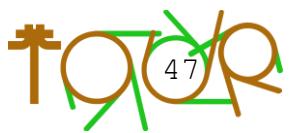
ATOM

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.

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

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

(ЛЕНТОН holds back QUARK.)

ЛЕНТОН

THEY'LL GET ELECTRONS.

(STUDENTS pass around scantrons.)

STUDENTS

DISTRIBUTION OF THE SCANTRONS.

ЛЕНТОН

THEY'LL GROUP THE ELEMENTS.

(STUDENTS group together.)

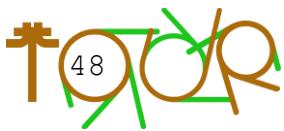
STUDENTS

NODES, ORBITALS.
NODES, ORBITALS.

NEUTRAL CIRCLES.
NEUTRAL CIRCLES.

ЛЕНТОН

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 THEY'RE VALIANT.

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

STUDENTS

NODES, ORBITALS.
NODES, ORBITALS.

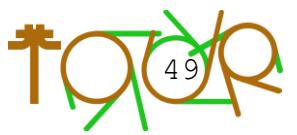
NEUTRAL CIRCLES.
NEUTRAL CIRCLES.

ЛЕПТОН

STUDENTS

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

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.

(*Handing the papers to QUARK.*)

(*QUARK snubs STUDENTS.*)

STUDENTS

VALENCE ELECTRONS.

VALIDATION.

ЛЕПТОН

WRONG ENERGY LEVEL.

(*Gathering all the papers from STUDENTS.*)

STUDENTS

VALENCE ELECTRONS.

VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

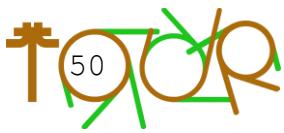
ЛЕПТОН

VALIDITY.

STUDENTS

VALENCE ELECTRONS.

VALIDATION.



ЛІПТОН

THERE'S

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛІПТОН

NO NEED SEARCHING

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

VALENCE ELECTRONS.

VALIDATION.

ЛІПТОН

VALIDITY.

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛІПТОН

THE HEART

STUDENTs

VALENCE ELECTRONS.

VALIDATION.

ЛІПТОН

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 !



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(ЛЕПТОН departs.)

(STUDENTS orbit away.)

14. 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.)

15. SUPER COLLIDE

SCENE ii

[Desertron]

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

ЛЕНТОН

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.

(ЛЕНТОН wanders off.)

END UP WITH DESERTS.

(Noticing ЛЕНТОН'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.

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

ЛЕПТОН

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 THEORIZ...
SUPER COLLIDE.

(QUARK presses on the control.)

BEAMS SUPER COLLIDE!

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

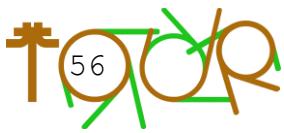
БЛЯДЬ (blyat).
GIVE ME A MOMENT.
HOLD UP UNIVERSE!

(Trying to raise QUARK.)

QUARK.

[Particles collide.]

BEHOLD THE DESERTRON!
SUPERCONDUCTING SUPER COLLIDER!
A SMASH.



[*Particles move along and around.*]

QUARK

STRANGE.

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!	GET PARTICLES IN TUBE.
SPIN PARTICLES AT HOME.	SAY HI TO 'LECTRONS.
PASS BY NICE PROTONS.	FEEL THE ENERGY.
STEER MAGNETIC FIELDS.	LIGHTEN UP, WILL YA?
REACH THE SPEED OF LIGHT.	

ЛЕНТОН

COL-

(TECHNICIANS collide and gather.)

TECHNICIANS

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

ЛЕНТОН

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

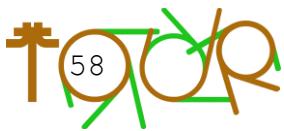
(Interacting and colliding.)

TECHNICIANS

LUXURY SCIENCE IN A DESERT!

(Interacting and colliding.)

(QUARK rein in the particles.)



ЛЕПТОН

AT DESERTRON.

TECHNICIANS

ENERGY, CAN YOU FEEL
IT, GAIN THE MAGNET!

QUARK

SUPERNATURAL.

REACH THE SPEED OF

ЛЕПТОН

CONDUCT YOURSELF.

LIGHT!

QUARK

SUPERVISION.

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 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!

15a. SUPER COLLIDE (reprise)

(TECHNICIANS exit.)

ЛЕНТОН

QUARK.

SUPER

CONDUCT YOURSELF, CANDIDATE.

JOB

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

(Departing.)

16. 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.

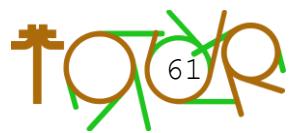
17. SLEPTON

(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

SLEPTON.
SPECTRAL.

(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.)



BOSON (cont.)

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!

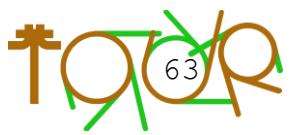
BOSON

DESERTRON COSTS A SLEPTON.

(*Kicking the cash to POLITICIANS.*)

POLITICIANS

SLEPTON?



(*POLITICIANS pick 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

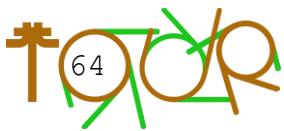
NO ACTIONS REQUIRED.
PASSION, BIT QUANTUM, FULFILLED.
OUR TAXES, DO BLOW IT.
THEIR FUNDS, GO SLOW.

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.



POLITICIANS (cont.)

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.
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.

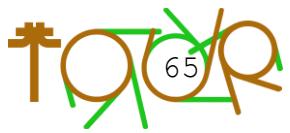
(Directing out.)

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!

BOSON

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

POLITICIANS

ATOM...

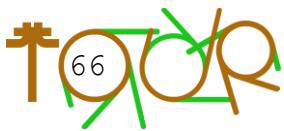
(BOSON addresses ATOM.)

BOSON

LISTEN HERE BUM,
THERE IS NOTHING TO GLUON.

POLITICIANS

SPLIT.



66

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!

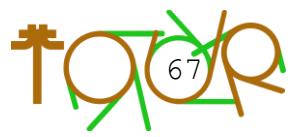
POLITICIANS

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.

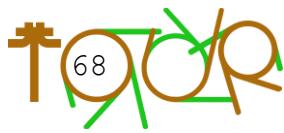
POLITICIANS

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.

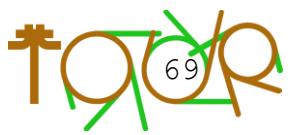
POLITICIANS

SLEEP IT OFF!
SCIENCE DON'T NEED FUNDS!

(*OUARK weeps.*)

POLITICIANS

CRY AWAY.
PHYSICS GONE!



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.*)

17a. 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.*)

BOSON (cont.)

GOURMETS, DESERTRON.

(*Pushing away QUARK.*)

NOW STRAY, SLEPT ON.

(*Vacating.*)

(*QUARK reclusively perches.*)

18. 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.)

ЛЕПТОН

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
GEGENSCHEIN.

(QUARK slightly shudders.)

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

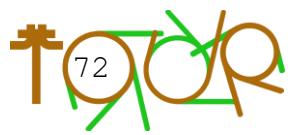
(Orbiting QUARK.)

(QUARK pushes away ЛЕПТОН.)

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!

ЛЕПТОН

GOT YOUR BACK.

(ЛЕПТОН leaves.)

QUARK

HEART SHATTERED.

19. ELECTROFORM

SCENE iii

[Magnet Factory]

(ATOM and TECHNICIANS march in, carrying a desk, particle board and supplying metals. They set down the desk.)

[The particle board displays an orderly pattern of tacks.]

TECHNICIANS

ELECTROFORMATIONS MAGNETIC PERSONNELS.

(Noticing QUARK.)

ELECTROFORMIDABLE MADE-UP CONNECTIONS.

(Encircling QUARK.)

ELECTROFORMULIZE ORBITALS TO BRING ABOUT CONCLUSIONS.

(Pointing their metals towards QUARK.)

(ATOM breaks the circle)

ATOM

ELECTROFORM.

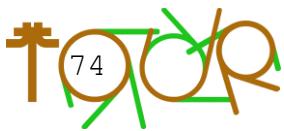
ELECTROFORM.

ELECT ME FORMALLY FOR I AM YOUR ALLY.

IT IS REFORMATION FOR MATTERS WITHIN US.

(Leveling with QUARK.)

ATOM SHALL FORMULATE AN EXPERIMENT TO FIELD PROPOSALS.



74

TECHNICIANS

TEST THE WATER.
THIS DISTILLATION.
ELECTROFORM.
JOIN THIS CIRCUIT.
MAGNET FACTORY.
ELECTRO— REBORN.

(Hypnotically moving around QUARK.)

ATOM

I KNOW WHAT YOU'RE
THINKING IN MAGNETIC
MOMENTS.
HOW DID I GET
THIS HIGH ENERGY
POSITION?
BOSON GRANTS ME
AN OPENING INTO THE
ACCELERATOR.

TECHNICIANS

ELEMENTARY.
BY YOUR UNIT.
WHAT'S UP, ATOM?
GONE DOWN, ATOM?
CHARMING QUESTION.
A STRANGE ANSWER.
ON TOP OF THINGS.
DON'T BOTTOM OUT.

(QUARK nears the desk.)

TECHNICIANS

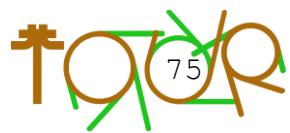
ATOM HAS FORMED THIS PACT FOR ALL US LITTLE GUYS.
ATOM WAS FORMERLY CONSIDERING BOSON.
ATOM CHOSE FORMALISTS AND PERSISTS LEADING MAGNET
FACTORY.

(Building magnets.)

QUARK

ELECTROLYTES.
ELECTRO-TRAP.

(Steering away from the desk.)



TECHNICIANS

NONCONDUCTIVE?
DO NOT COPPER OUT.
ELECTROFORM.

(Coalescing.)

ALL THAT ARE LEFT.
POSITIVELY CHARGED.
ELECTRO— WE'RE TORN.

(ATOM hands magnets to QUARK.)

ATOM

THE SOLUTION,
THEY PRECIPITATE
AND CRYSTALLISE.
YOU ARE SOLID.
YOU ARE GOOD TO GO.
YOU'LL REALIZE YOU'RE FORMED.

(QUARK churns the magnets in her hand.)

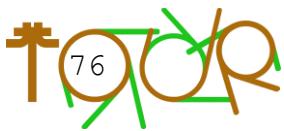
TECHNICIANS

SHE IS JUST A DOCTORAL ADVISOR'S LOST PET.
WE BET SHE CAN'T FIND HER PLATES AND IRON THINGS OUT.
RANDOMNESS AS CORROSIVE AS THEY COME TO MAGNET FACTORY.

ATOM

ANODES ARE KEY TO ELECTROFORM SOLUTIONS.
REWIRE OURSELVES AWAY FROM THESE OLD FORMULAS.
QUARK AND ATOM CAN SHAKE THINGS UP CAUSE AFTER ALL,
YOU JUST FOMENT.

(TECHNICIANS move in formation.)



TECHNICIANS

ANODES ARE KEY TO ELECTROFORM SOLUTIONS.
REWIRE OURSELVES AWAY FROM THESE OLD FORMULAS.
QUARK AND ATOM CAN SHAKE THINGS UP CAUSE AFTER ALL,
MAGNET MOMENTS.

(QUARK garnishes the magnets with her hands.)

ATOM

ELEMENTARY.
STANDARD MODEL.

KEEP IT UP, QUARK.
DOWN-TO-WORLD QUARK.

CHARMING FELLOW.
'TWAS STRANGE ROOKIE.
ON TOP OF THINGS.
DON'T BOTTOM OUT NOW.

TECHNICIANS

ELECTOFORMATIONS
MAGNETIC COTERIE.

ELECTROFORMIDABLE
THEORIZIED CONNECTIONS.

ELECTROFORMULIZE
ORBITALS TO BRING
ABOUT
INTRODUCTIONS.

(QUARK justly tears apart the magnets.)

*(The poles in TECHNICIANS' formations flip.
They cross each other. They zigzag.)*

TECHNICIANS

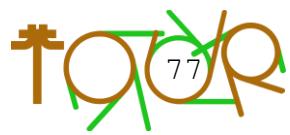
QUANTUM TUNNELLING IS HERE.

ATOM

TUNNELLED ELECTRODES.

TECHNICIANS

CAN'T DIG OUT OF THIS, ATOM.



ATOM

DETРИMENTAL HEAT.

TECHNICIANS

THERE IS NOTHING TO WELDING.

ATOM

BRAZING WEAKENED PIECE.

TECHNICIANS

DISSIMILIAR ALLOYS.

(Pointing to either QUARK or ATOM.)

ATOM

SUPERIOR BONDS.

ATOM

ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.

TECHNICIANS

ELECTROPLATING
IS ALL.
SETTLE FOR LESS.

YOU CAN'T COAT ALL
THESE FACTORS.
DON'T GET BROKEN
DOWN.

QUARK

MATTER THAT MAKES THE WORLD

(Motioning towards herself.)

TO MATTER THAT MAKES THE WORLD

(Motioning towards ATOM.)

QUARK (cont.)

NOW ASKS YOU TO JOIN ME
IN MAGNETIC MOMENT.

(*Extending her hand to ATOM.*)

(*TECHNICIANS contract and detract.*)

TECHNICIANS

CAN'T CONFORM.
YOU'RE DEFORMED.

ATOM

MAGNETIC MOMENT, QUARK?
YOU HAVE ALWAYS MADE IT.

(*Descending.*)

I'VE DONE NOTHING TO STRENGTHEN.
THE WORLD'S NOT MY PLACE.

(*Instantly ascending.*)

ATOM

I'M HOPING TO HAVE A
LOT ON MY PLATE.
THIS IS YOUR FEAST TO
EAT.

TECHNICIANS

ELECTROPLATE.
ELECTROPLATE.
ELECTROPLATE.
ELECTROPLATE.

(*TECHNICIANS encircle QUARK.*)

I'M FINISHED WITH ALL
THESE MAGNETS
AND ALL OF ITS
FACTORY.

ELECTROPLATE.
ELECTROPLATE.
ELECTROPLATE.
ELECTROPLATE.

(*ATOM yields.*)

ATOM (cont.)

I WILL TAKE THAT JOB
OFFERED
UP BY BOSON

ELECTRODEPOSITION.

STAY CONDUCTIVE,
QUARK.

TECHNICIANS (cont.)

ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFORM.
ELECTROFOAMING.

(*Melding away.*)

20. REMANENCE

(*QUARK detects the emptiness.*)

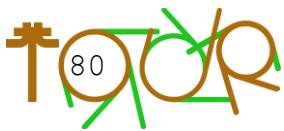
QUARK

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.)

21. PREON

(ЛЕПТОН tiptoes in.)

(QUARK hides the magnet. She pays no
attention to ЛЕПТОН.)

ЛЕПТОН

YOU HAVE REACHED THE MASS POINT.
PRINCIPLE OF UNCERTAINTY.
COLLECT YOUR PARADOX.
SCATTER YOUR PLOTS.

(Organizing QUARK's space.)

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

(Opening QUARK's hand. She notes the magnet.)

THESE ATTRACTING MAGNETS
REPEL YOUR SPIRIT,

(ЛЕПТОН slides the tacks to QUARK.)

ЛЕПТОН (cont.)

WERE IN PARTICLES.

I WILL PRAY ON.

(QUARK riles herself up.)

QUARK

MY MODEL HAS ITS STANDARDS. I'LL NOT CONFLATE POINTLIKE PARTICLES LIKE THESE DIPOLES IN MAGNETIZATION. MY ELEMENTARY 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 desk.)

DYING BY POLARIZATION. MY EXISTENCE ONLY REPELS.

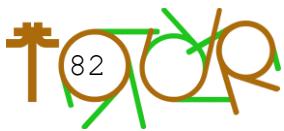
(ЛЕПТОН pulls out a lightbulb and wires. She separates the magnets.)

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 HYPOTHESIS. POINT OF YOUR LIFE'S TO THEORIZ, 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 INITIATE CONDUCTION.
MY TEMPERAMENT'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 PARADOX.
PUPIL, GO ON. QUIT...

(QUARK slides the magnets towards the light bulb.)

[The light bulb lights up.]

BEING A ХУЙ (hooey). QUARK, P H D.

QUARK

PRAISE BE.

ЛЕПТОН

PREON.

[*The space brightens.*]

(*QUARK intimately hold her gaze.*)

(*ЛЕНТОН anxiously meets QUARK's gaze.*)

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

[*Blackout.*]

End of Act



ACT II

22. MOLE

[Accelerator]

(*QUARK wanders in. She pops around.*)

(*BOSON enters. He moves along, without noticing QUARK.*)

(*ЛЕПТОН rushes in, carrying papers. She playfully smacks QUARK with the papers. She rushes out.*)

(*TECHNICIANS remain absent.*)

TECHNICIANS

WE HAVE MOLES.

CIRCLE YET TO BE A SPHERE.

LET'S CONTINUE THE TOUR.

(*ATOM tardily arrives. They eye QUARK.*)

(*QUARK wins the staredown with ATOM.*)

23. ELEMENTARY PARTICLE

(*ATOM progressively smiles.*)

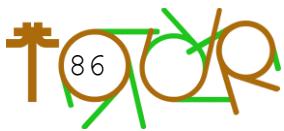
ATOM

STARTING OFF ELEMENTARY.

ORBITALS, YOU FIT IN SO MANY.

LET US ACCELERATE!

JOIN US ON THIS CIRCUIT TOUR.



86

(*QUARK remains unmoved.*)

(*ATOM puzzledly stops in their tracks.*)

QUARK

A LITTLE LATE.
ATOM.
YOU VERY LIKELY HAVE NO CONCEPT.
SPACETIME.
YOU HAVE NO IDEA. OUR CONNECTION,
ATOM.
THERE'S NOTHING AT ALL TO QUANTIZE, ATOM.
IT'S BEEN A WHILE.
ATOM.
YOU NO LONGER HOLD ANY COMTEMPT?
REMORSE?
YOU HAVE AN IDEA, MISDIRECTIONS,
ATOM,
THAT I HAD TO GO THROUGH ALONE, ATOM?

ATOM

QUARK.
YOU DID NOT HIT ROCK BOTTOM.
YOU'VE BEEN ON TOP OF YOUR GAME.
YOU'RE CHARMING.
CAN'T UNDERCUT STRANGENESS.
YOU SHOULD REMAIN UPPITY.
YOU'RE HOME, NOT DOWN IN THE DUMPS.
STAY CHARMING,
AND ALWAYS BE STRANGE.

(*QUARK sees through ATOM.*)

QUARK

SO GLAD WE CROSSED
EACH OTHER.
A SMALLER WORLD AND I'D BE UP IN
YOUR CLOUD

QUARK (cont.)

OF NEGATIVITY, 'LECTRIC LIKE,
IT HERE?
POLARITY BEYOND YOUR MAGNET FACTORY.

(ATOM *is taken aback.*)

QUARK

I'LL HIT ATOMIC
BOTTOMS.
I'M GAME TO TOP IT ALL
OFF.
STOP FLATTERING.
I CAN LIVE WITH ALL
THAT.
I'M DONE WITH YOUR
UPWARD TREND.
SO DONE, GET DOWN TO
MY LEV—

ATOM

YOU DID NOT HIT ROCK
BOTTOM.
YOU'VE BEEN ON TOP OF
YOUR GAME.
YOU'RE CHARMING.
CAN'T UNDERCUT
STRANGENESS.
YOU SHOULD REMAIN
UPPITY.
YOU'RE HOME, NOT DOWN
IN THE DUMPS.

(ATOM *kneels.*)

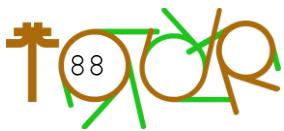
THIS IS STRANGE,
AND NEVER CHARMING.

STAY CHARMING.
AND ALWAYS BE STRANGE.

(ATOM *stands up.*)

QUARK

NOT SYNCHROTRONS.
CIRCLE.
ACCELERATOR. A WINDING LOOP.
IT'S STRANGE.
GODLY PARTICLES, WORLD'S RUN BY ONE.
BOSON
AND HIS GADGETS: ALL THESE ATOM SMASHERS.



(ATOM *distances.*)

QUARK (cont.)

I'M JUST BEING
RANDOM.
IT'S REALLY HARD TO NOT INFLUENCE
YOUR FIELD.
I'M FUNDAMENTAL.

(*Twirling her finger around her head.*)

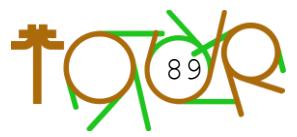
I COME AROUND,
ATOM,
TO ACCELERATE, SCATTER TOURS.
NOWHERE BUT UP.
BOTTOM.
TOP.
DOWN.
STRANGE.
CHARM.
STANDARD MODEL.
IT'S UP.
BOTTOM.
TOP.
DOWN.
STRANGE.
CHARM.

(ЛЕПТОН enters. She happily addresses ATOM.)

THE STANDARD MODEL.

(ATOM pushes ЛЕПТОН into QUARK.)

(ЛЕПТОН collides into QUARK. She falls with
QUARK.)



ATOM

ACCELERATOR.

(Directing out.)

QUARK

EXCELLENCE.

ATOM

QUARK, ЛЕПТОН, BOSON.

QUARK

NOTHING BUT...

ATOM

ELEMENTARY.

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

QUARK

THAT IS ME.

ATOM

QUARK, ЛЕПТОН, BOSON.

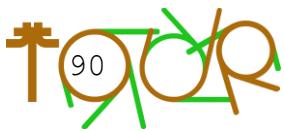
QUARK

NOTHING BUT...

ATOM

ELEMENTARY.

TAU, MUON, 'LECTRON.



QUARK

ON HER MIND.

(Motioning towards ЛЕПТОН.)

ATOM

QUARK, ЛЕПТОН, BOSON.

QUARK

NOTHING BUT...

ATOM

ELEMENTARY.

GLUON, PHOTON, W, Z, HIGGS.

QUARK

I'M READY.

ATOM

QUARK, ЛЕПТОН, BOSON.

QUARK

ALL THINGS ARE...

ATOM

ELEMENTARY PARTS.

(Leaving.)

24. BRING THE CONDUCTIVITY

(ЛЕПТОН helps QUARK up.)

ЛЕПТОН

Я ПОДЪЕМ ТЫ. (ya pod"jóm ty.)
I CARRY INTRINSIC, CURRENT NEWS,
SOON BINDING.
YOU'LL SET BOSON ON A COLLISION
COURSE WITH WORK.
HOLD FERMION, FOR HE'LL FEEL ELECTROWEAK.
BRING THE CONDUCTIVITY.

QUARK

IDEALS COME SO FAR.
MATTERS,
THEY COME TO ME.
THANK YOU.

ЛЕПТОН

YOU DOCTORATES...

(QUARK points out the hypocrisy.)

THERE IS NOTHING UNCONDUCIVE AS
SENTIMENTS.

(Growing lighthearted.)

SPARK 'NOTHER ANGLE BEYOND OUR UNDERSTANDING.
MEANWHILE, FOR MOVEMENT OF THIS LAB,
I SHALL
BRING THE CONDUCTIVITY!

(Moving about.)

25. MASS CHARGE SPIN

(ATOM leads BOSON into the space.)

(BOSON stops in his tracks.)

BOSON

DID NOT EXPECT YOU'LL BE
THE PROSPECTIVE TECHNICIAN TO
MASS CHARGE SPIN.

(QUARK and BOSON take two to tango.)

UNDER MY LIGHT, SO YOU REALLY CAN'T
MASS CHARGE SPIN IT.
INFLUENCE SO MASSIVE,
YOU LACK THE CHARGE,
ONLY HALF SPIN,
MASS CHARGE SPIN
THE QUANTUM ENTANGLEMENT—

ЛЕПТОН

I WILL FLUX OUT WITH HER.
MASS CHARGE SPIN THIS.

(Coming between QUARK and BOSON.)

(BOSON loses his footing.)

BOSON

ELEMENTARY...
ELEMENTARY...
ELEMENTARY...
ELEMENTARY...
THAT IS YOU, ЛЕПТОН.
YOU SUPERVISOR.

BOSON (cont.)

YOU OVERSEER.
YOU ARE A TRAITOR.

(ЛЕПТОН extends her hand to ATOM.)

YOU ARE STILL OUR PRIDE.

(ATOM comes to QUARK's defense.)

(BOSON submits.)

ATOMIC NUMBERS.
ATOMIC NUMBERS.
ATOMIC NUMBERS.
THE WAY YOU LIKE IT.

(ATOM quickly comes to BOSON's side.)

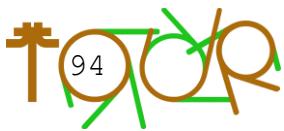
MASS CHARGE SPIN OFF.
MASS CHARGE SPIN IN.
MASS CHARGE SPIN, YEAH...
MASS CHARGE SPIN YOUR WAY.

(Opening up the Accelerator.)

26. QUANTUM

[The collider horizontally lies with no ends or openings in sight. The diameter of the tunnel is wider than any person's height.]

(TECHNICIANS mass charge spin out.)



TECHNICIANS

QUANTUM ON !

TECHNICIANS

HADRON ON !

TECHNICIAN

ACCELERATE !

(ЛЕПТОН and QUARK run around.)

(BOSON disappointedly heads towards the collider.)

(ATOM roams about.)

TECHNICIAN

ACCELERATE !

TECHNICIAN

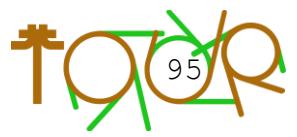
ACCELERATE !

TECHNICIAN

ACCELERATE !

TECHNICIAN

ACCELERATE !



TECHNICIAN

ACCELERATE !

TECHNICIAN

ACCELERATE !

(*TECHNICIANS collide with one another.*)

(*ЛЕПТОН and QUARK stop by the collider.*)

ЛЕПТОН

ACCELERATE !
ACCELERATE !
ACCELERATE !
ACCELERATE !
ACCELERATE !
ACCELERATE !
ACCELERATE !

(*Tapping QUARK.*)

QUARK

ACCELERATE !

ЛЕПТОН

TECHNICIANS

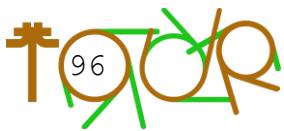
ACCELERATE !

ATOM

ALL'S ATOM SMASHING!

TECHNICIAN

LARGE HADRON COLLIDER !



TECHNICIAN

SEE THE QUANTUM WORLD!

TECHNICIAN

LARGE HADRON COLLIDER!

TECHNICIAN

FEEL THE QUANTUM WORLD!

TECHNICIAN

LARGE HADRON COLLIDER!

TECHNICIAN

BE THE QUANTUM WORLD!

TECHNICIAN

LARGE HADRON COLLIDER!

ЛЕПТОН

ACCELERATE!

ACCELERATE!

ACCELERATE!

ЛЕПТОН

ACCELERATE!

ACCELERATE!

ACCELERATE!

ACCELERATE!

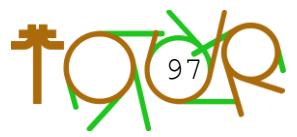
ACCELERATE!

TECHNICIANS

HADRON.

HADRON.

LARGE HADRON.



ATOM

POSITRON? 'LECTRON?

TECHNICIAN

LARGE HADRON COLLIDER!

TECHNICIAN

ALL SUBJECTS, TAKE YOUR PICK!

TECHNICIAN

LARGE HADRON COLLIDER!

TECHNICIAN

PICK UP THE QUANTUM BITS!

TECHNICIAN

LARGE HADRON COLLIDER!

TECHNICIAN

NOTHING IS MYOPIC!

TECHNICIAN

LARGE HADRON COLLIDER!

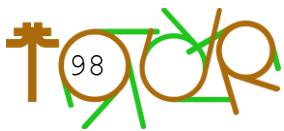
QUARK

THIRTY, ЛЕПТОН.

'LECTRON VOLTS.

WE CAN SHOOT TWINS.

PROTON BEAMS.



ЛЕПТОН

YOU BRING YOUR LAWS
OF PHYSICS
TO FORM YOUR OWN THEORIES.

ATOM

THEORIES!

ЛЕПТОН

HADRON ON.
HADRON ON.
ACCELERATE.

TECHNICIANS

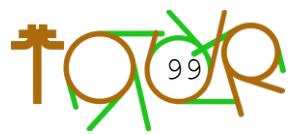
HADRON ON?!
ACCELERATE.
HADRON ON.
ACCELERATE.
ACCELERATE.

(QUARK, ЛЕПТОН, and TECHNICIANS get closer together.)

ACCELERATE.
ACCELERATE.
ACCELERATE.
ACCELERATE.

ЛЕПТОН

LARGE
HARDRON
COL-



ЛЕПТОН

LID—
ING!
PARTICLES!

TECHNICIANS

ACCELERATE
TWIN PROTON BEAMS.

(*Expanding.*)

(*ЛЕПТОН grabs ahold of ATOM.*)

(*QUARK, ЛЕПТОН, ATOM, and TECHNICIANS clump together.*)

QUARK

WHO MAKES THE UNIVERSE?

ЛЕПТОН

ATOM

TECHNICIANS

QUARK!

(*TECHNICIANS accidentally push out ATOM to rally around QUARK.*)

27. FUSION

(*QUARK, ЛЕПТОН, and TECHNICIANS converse.*)

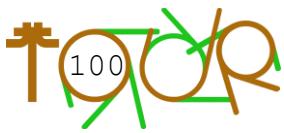
(*ATOM looks on.*)

ATOM

WHERE IS THE FUSION? EFFUSION.
JUST CONFUSION. DIFFUSION, WHERE'S IT?

(*Looking upon BOSON.*)

DON'T GO NUCLEAR.
IT IS CLEAR.



(ATOM heads to BOSON.)

ATOM (cont.)

BOSON.

WE HAVE THE VISION. REVISIT.

IRON IT OUT. OXYGEN. CARBON.

WE'RE IN THE CLEAR.

(BOSON try to distance from ATOM.)

REFUSION.

(Grabbing ahold of BOSON.)

FUSION WITH ME.

(BOSON and ATOM fusion dance.)

JUST FUSION.

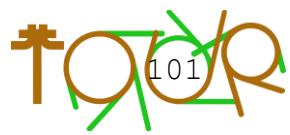
(ЛЕНТОН head to BOSON and ATOM. She splits BOSON and ATOM.)

LET US GO NUCLEAR FUSION.

(ЛЕНТОН directs BOSON to QUARK. She accompanies ATOM out.)

28. SYNCHROTRON

(Time freezes as BOSON slowly heads to QUARK and TECHNICIANS. He looks on at the collider. He grows overly sentimental.)



(TECHNICIANS *frozenly remain unsurprised.*)

BOSON

THE SYNCHROTRON...

(*Feeling both fervent and displeased.*)

YOUR LIVES HAVE ACCELERATED
BELOW MY THOUGHTS.

'LOW MY WILDEST DREAMS...
I CANNOT STRESS THIS ENOUGH.
WELCOME TO THE ORIENTATION, QUARK...
DON'T TOUCH ANYTHING AT ALL, YOU HEAR ME? SYNC UP.

(TECHNICIANS *open the collider.*)

DEMONSTRATE HER WORK. SYNCHROTRON.

(*BOSON sprints into the collider.*)

TECHNICIANS

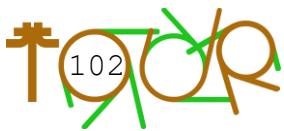
CIRCULATE WITHIN THIS VESSEL.
IN THE END, WE'LL HAVE A NICE RUN.

(*BOSON returns, holding out a bright, hearty object.*)

(TECHNICIANS *promptly jog into the collider.*)

BOSON

LET MAGNET GUIDE YOU.
LET MAGNET FLOW THROUGH.



(TECHNICIANS return, carrying unpleasant discoveries.)

TECHNICIANS

LET MAGNET GUIDE YOU.
LET MAGNET FLOW THROUGH.

(QUARK slowly enters the collider.)

(BOSON tries to be supportive.)

BOSON

MATTERS ARE TREASURE.
I'VE UNEARTHED TOO MUCH.

(Selfishly smirking.)

(QUARK returns, unearthing a colourful treasure.)

QUARK

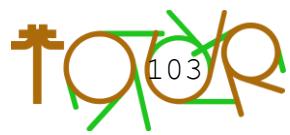
THE SYNCHROTRON...
ALL OF YOU JUST NEED TO SLOW DOWN.
HAVE TIME TO THINK.
FORCE SOME HOPE INSIDE.
AND I'LL RELEASE YOUR PRESSURE.

(Handing the colourful treasure to TECHNICIANS.)

(BOSON swipes away the colourful treasure.)

BOSON

LET MAGNET GUIDE YOU.
LET MAGNET FLOW THROUGH.
IT DOES NOT MATTER.
I'VE UNEARTHED...



(*QUARK immediately takes out another colourful treasure from the collider.*)

BOSON (cont.)

SYNC UP!

TECHNICIANS

ZIP IT!

QUARK

TOOLS LIKE YOURS HAVE MANY APPLICATIONS UNDER DIFFERENT FIELDS LIKE OURS
BUT YOU USE IT TO DEVIATE THE PARTICLES FROM THEIR PATHS AND EMIT LIGHT,
THEREBY THE POTENTIAL SPEED OF BEAMS ARE CUT SHORT,
WASTING OUR TIME
AND SYNCHROTRON'S.
PERHAPS, LETTING YOUR SUBORDINATES WORK AS LONG AS YOU DO WILL CHANGE MATTERS.
LET THESE TECHNICIANS JOIN IN ON THE ENTIRE SYSTEM OF BEAM LINES.
TECHNICIANS, RADIATE, SHOW US THE INVISIBLE, PHYSICAL WORLD.
DO SYNCHROTRON.

(*TECHNICIANS uncover abundant objects.*)

BOSON

RECALL ME DEFUNDING THE DESERTRON?

(*QUARK uncovers sand in the collider. She hurls sand at BOSON.*)

BOSON (cont.)

WELL, SEEMS LIKE YOU HAVE MOVED ON AND ARE UP FOR STATES,
GROUNDED, YOU'RE IN CHARGE.
NOW SYNC UP WITH THE SYNCHROTRON.

(*Marching off.*)

29. HYPERCHARGE

(*QUARK gather TECHNICIANS. She sends each TECHNICIAN into the collider.*)

(*Each TECHNICIAN run around the edge of the space, even beyond into the outer space or the audience. They may uncover various objects and when they do, they place them with QUARK.*)

TECHNICIANS

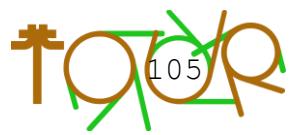
HYPERCHARGE!
HYPER! HYPER!
HYPERCHARGE!
HYPER! HYPER!

(*ЛЕНТОН arrives with paperwork and pens. She hands some papers and a pen to QUARK.*)

ЛЕНТОН

HOW DOES IT FEEL TO BE IN HYPERCHARGE?
HOW DOES IT FEEL TO BE IN HYPERSPACE, ALL?!

(*ЛЕНТОН and QUARK sketch each uncovered object.*)



TECHNICIANS

HYPERCHARGED!
HYPED UP! HYPED UP!
HYPERCHARGED!
HYPED UP! HYPED UP!

ЛЕНТОН

THIS SENSATION HAS MADE ME FEEL SO CHARGED!
I AM TRULY NOTHING BUT HYPERACTIVE!

(ATOM arrives.)

(TECHNICIANS acknowledge ATOM's presence
when passing by ATOM.)

(ATOM watches as TECHNICIANS move on to
QUARK.)

ATOM

STRONG INTERACTIONS ARE WHY THE ACCELERATOR RUNS.
STRONG INTERACTIONS ARE WHY NO ATTENTION IS PAID TO...

(Mitioning towards themself.)

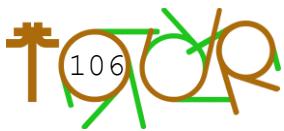
(ЛЕНТОН excitedly moves towards ATOM.)

THERE ARE ORBITALS.
OUT THERE FOR ME.

ЛЕНТОН

AGREED.

(Orbiting ATOM.)



ATOM

LESS NEGATIVITY IN MY LIFE, PLEASE.

(Joining a group of TECHNICIANS.)

(ЛЕПТОН unexcitedly returns to QUARK. She returns to sketching.)

(QUARK watches as ЛЕПТОН's quality of sketches diminishes.)

ЛЕПТОН

I AM NOTHING BUT WEAK INTERACTIONS.
HOW DOES IT FEEL TO BE SO HYPERSENSITIVE?

TECHNICIANS

UNDERCHARGED!
PIPE DOWN. PIPE DOWN.
UNDERCHARGED.
HYPELESS. HYPELESS.

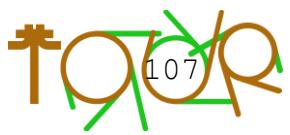
(TECHNICIANS close the entry of the collider.
They depart.)

30. ISOSPIN

(БОСОН enters. He takes the paperwork from QUARK and ЛЕПТОН.)

BOSON

THERE IS NO WAY TO SPIN THIS.
I NEED TO EIGENSTATE THE
OBVIOUS LEADERSHIP HERE.
YOU PUT HYPER IN THE CHARGE.



QUARK

UM...

ЛЕНТОН

YOU HAVE JUST SCALAR AND YOUR STANDARDS
HASN'T A QUIRK.
SHE'S FUNDAMENTAL TO ME AS IS TO YOU,
BOSON.
ATOM.

(Intently looking at ATOM.)

SHE SO SPINS.

(Dispiritingly spinning off.)

BOSON

ISOSPIN STRONGLY.

(Glimpsing where ЛЕНТОН exited.)

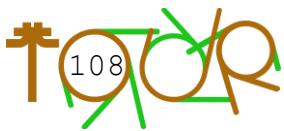
ISOSPIN EFFUSION REALLY.
ISOSPIN ALL THIS.
ISOSPIN CAN'T BELIEVE THIS.
I HAVE PROPOSALS.

(QUARK distances.)

(ATOM taps BOSON.)

OH TAU..
WE CAN REFUND DESERTRON.
SUPERCONDUCTING SUPER THING.
THERE WILL BE A SLEPTON OF CASH.
ISOSPIN CAN'T WAIT.

(QUARK focuses on the collider.)



BOSON (cont.)

ISOSPIN CAN'T BE UP FOR DEBATE.
ISOSPIN CANNOT.

(*Directing ATOM.*)

ISOSPIN YOUR TIME WITH THIS SQUARK.

(*Leaving.*)

(*ATOM leaves.*)

31. SUBATOMIC

(*TECHNICIANS enter. They stand in line by the entry of the collider.*)

TECHNICIAN

WHAT IS YOUR FIRST ORDER SANDWICH? I'M GOING WITH THE ATOMIC.

TECHNICIAN

DEVIATION CALLS FOR MY ORDER TO BE WITH EXTRA PICKLES.

TECHNICIAN

SODIUM CHLORIDE WITH YOUR FRUITS OF LABOUR? YOU ALL MAKE ME SICK.

(*QUARK stands in the back of the line.*)

TECHNICIAN

SICKLE CELLS, IT'S QUARK! GET YOUR PHYSICS UP-DOWN-TOP-BOTTOM-STRANGE-CHARM HERE!

(*QUARK admirably heads to the front of the line.*)

(*ATOM opens the collider from the inside.*)

ATOM

OSCILLATIONS!

WHAT WILL IT BE, SUBTROPICAL?

(*Presenting an empty margarita glass.*)

DO NOT THINK TOO SUBCONSCIOUSLY.

(*Swirling their finger in the glass.*)

CHOOSE A LEVEL, SUBMARINE DOWN?

(*Stowing away the glass.*)

DO NOT BE A SUBORDINATE, QUARK.

TECHNICIAN

SUB IN A PAIN COMPLET.

TECHNICIAN

SUB IN ANY BÁNH MÌ.

TECHNICIAN

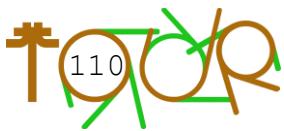
SUB IN A ВКУСНЫЙ (darnitskiy).

TECHNICIAN

SUB IN SOME SORT OF BREAD.

TECHNICIANS

SUBMIT.



QUARK

DON'T THINK IT MATTERS.

I'D LIKE A SUB.

A SUBATOMIC.

ATOM

SUBATOMIC AS IN THE YEAST?

SUBATOMIC AS IN THE CHEESE?

SUBATOMIC WITH ANY WEDGE?

SUBATOMIC'S PICKY, SALID? QUIRK?

TECHNICIAN

SUBTLE IN DISCORDANCE.

TECHNICIAN

SUBTLE MANNERISM.

TECHNICIAN

SUBTLE WITH THOUGHT PROCESS.

TECHNICIANS

SUBTLY LOST HERE LIKE IN

QUANTUM.

QUARK

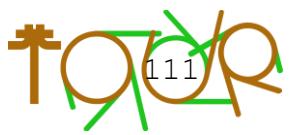
IT'S RATHER BASIC.

I AM A SUB.

A SUBSTITUTION...

ATOM

CLOSING CIRCUIT EARL—



(ATOM closes the entry of the collider.)

ATOM

SORRY. ISOSPIN.

TECHNICIAN

LOOKS LIKE WE GOT SODIUM...

ATOM

SINK TO YOUR LEVEL, SUBATOMIC!

(Getting down with QUARK.)

SINK TO MY LEVEL, SUBATOMIC!

(TECHNICIANS get down with QUARK and ATOM.)

TECHNICIANS

BASIC THAN THE BASIC UNIT.

(Staring at ATOM.)

NO EXCHANGE, FOR WE'LL GET DOWN WITH YOU
A LEVEL!

ATOM

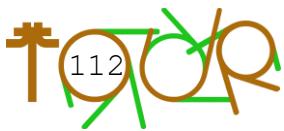
SINK TO HER LEVEL, SUBATOMIC!

(ATOM and TECHNICIANS level themselves.)

SINK TO HER LEVEL!
SINK TO HER LEVEL!
SINK TO THE LEVEL!

TECHNICIANS

SING AT HER LEVEL!



(ATOM adjust themselves.)

ATOM

SUBATOMIC!

32. MESON

[The space brightens.]

(BOSON appears. He dismisses the light.)

[The space dims.]

(TECHNICIANS exit.)

BOSON

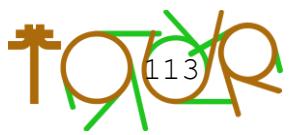
I RESIGN. I RESIGN.
I'VE TAKEN IT TOO LIGHTLY, BUT MESON.

(ATOM demonstrates their disapproval.)

ATOM.
I'LL RESIGN. I'LL RESIGN.
I'VE GOT HEAVY NEWS TO DECLARE ABOUT
ЛЕПТОН.

ATOM

BOSON, WHERE IS THE LIGHT TRANSMITTED WHEN YOU ARE GONE?
MASONS, BOSON, WHERE ARE THE WAVES' DIRECTIONS WITH NO GUIDANCE?
REASON?



BOSON

I CAN TRUST. I CAN TRUST.
THE MATTER THAT HAS MADE UP EVERYTHING. ATOM.
IT IS YOU.

(*BOSON immediately pivots to QUARK.*)

IT IS QUARK.
YOUR FIRST DUTY AS THE NEW DIRECTOR OF THE—

ATOM

BOZO, THERE'S NOTHING LIGHT TO TAKE FROM THIS MASON'S MIND.
ЛЕПТОН, BOSON, WHY NOT PICK THE ELECTRIC DEPOSITION?
TREASON.

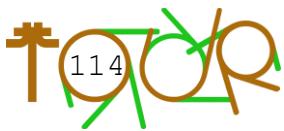
BOSON

SHE'S SOMETHING. NOT ALRIGHT.
SHE HAS LOCKED HERSELF IN THE COLLIDER,
SOMEHOW.
I DON'T KNOW. I DON'T KNOW.
I DON'T KNOW WHAT HAS GOTTEN INTO HER.
OH WELL.
SHE'S WORTHY.

(*Addressing QUARK.*)

YOU'RE WORTHY.
MY WORTH IS BEYOND THIS ACCELERATOR.
QUBITS.
SAVE ЛЕПТОН. SAVE ЛЕПТОН.
YOU TWO WILL RUN THE LAB LIKE YOU'RE MESON.
GET YOUR TWO.

(*Leaving.*)



33. PION

QUARK

IT SEEMS MY
RESPONISIBILITIES HAVE PILED ON.
AND MY RESPONSE WILL RECONCILE ЛЕНТОН.

ATOM

RADIOACTIVE DECAY SURELY WON'T STOP YOU?

QUARK

YOUR TROUBLES WILL SURELY NOT BE PIONS.
YOUR INTERACTION'S NEVER PION.

ATOM

HAVE YOU EXPERIENCED HIGH LEVEL COLLISIONS?

(QUARK looks away.)

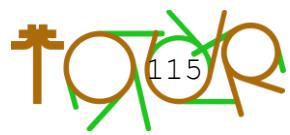
QUARK

LACK OF INTERACTIONS DID PILE ON.
IT ALSO HELPED ME EXILE BOSON.
I'M ALSO DRAWN TO THIS...
PATTERN. FIRST ORDER, ATOM.

(Harnessing the newfound power as she stares down ATOM.)

I FORGIVE YOU.

(Heading to the collider.)



34. DEUTERIUM

ATOM

I AM STABLE AS ANY DEUTERIUM...
PRIMARI— REALLY, OUR INNER PROTONS AND OUR NEUTRONS
ARE PAIRED.
SECONDARY.
I AM WELL-OFF AS AN OLD DEUTERAGONIST.
PRIMARI— REALLY, POSITIVITY, NEUTRALITY ARE PAIRED.
SECONDARY.

(Stably dancing.)

QUARK MAKES UP THE WORLD.
IT'S QUARK, MAKES UP THE WORLD.
JUST BREATHE.

(Taking a breath.)

THERE ARE EIGHT PROTONS.

(Taking a breath.)

THERE ARE EIGHT NEU—
I HATE.
I AM STABLE AS ANY DEUTERIUM...
PRIMARI— REALLY, OUR INNER PROTONS AND OUR NEUTRONS
COMPARE.
SECONDARY.
I AM WELL-OFF AS AN OLD DEUTERAGONIST.
PRIMARI— REALLY, POSITIVITY, NEUTRALITY ARE THEIRS.
SECONDARY.

(Hopelessly walking away.)

35. ELECTRON

(QUARK tries to listen in on the collider.)

QUARK

ЛЕПТОН.
ELECTRICITY AND CHARGE ARE NOT FLOWING THROUGH.
SUPERVISOR, YOU HAVE BEEN QUITE NEGATIVE.



TECHNICIANS

ELECTRON NEUTRINO. ЛЕПТОН!

QUARK

ЛЕПТОН.

YOUR DENSITIES ARE BOUNDLESS,
EXCHANGE REPULSION.

(Frustratingly looks away.)

THIS ADVISOR, AGAIN. YOU'RE BACK, SCATTERING!

*(TECHNICIANS enter. They impact one another.
They collapse.)*

TECHNICIANS

ELECTIVE NEUROTIC... LEAP ON!

(QUARK worries.)

QUARK

ЛЕПТОН.

PLEASE EFFUSION THE BINDING ENERGY HOLDING YOUR FUSE.
YOU'RE MY COMRADE BECAUSE WITH YOU, I'M POSITIVE.

(ЛЕПТОН echoes from within the collider.)

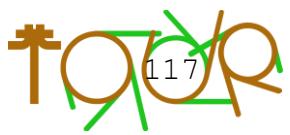
ЛЕПТОН

NO. NEGATIVE. NEGATE. I'M IN A BIND. NEGATIVE. ION. I
AM NEGATIVE.

TECHNICIANS

ELECTRON NEUTRINO. ЛЕПТОН!

(QUARK stands strong.)



QUARK

ZERO NET ELECTRIC CHARGE.
THAT'S HOW MUCH THERE WILL BE WHEN YOU ARE NOT AROUND
THE COLLIDER.
DO NOT LET YOUR CRIES BE THUNDEROUS WITHOUT THE
STREAMS OF LIGHTNING.
YOU HAVE FALLEN FROM THE COSMOS TO REIN IN THE
PARTICLES.
VALENCE!

TECHNICIANS

YOU IN THE GOLD FOIL
EXPERIMENT,
DENSITY FILLED OUR VOID.
YOU'RE STATIC, ELECTRON,
REIN IN THE CHARGE!

(Prying open the collider.)

JIENTOH

HEART.
REACTIVE.
MANY HAVE A LOT TO GAIN. MOSTLY TO LOSE FROM ME.
ATOM...
I HAVEN'T GOT A MENTAL CONFIGURATION.

(TECHNICIANS stand at attention.)

QUARK

NOTHING TO CONFIGURATE.
TAKE INTO ACCOUNT THAT YOU'LL BE OPEN TO OTHER
COLLISIONS.
ATOMIC CLOUDS YOU AND YOU FORGET LIFE'S MORE THAN
IONIZING.
AS ATOM SHOULD DO, I'LL CAPTURE YOU BEFORE YOU EVER
DECAY.
VALID!

(*QUARK tenderly enters the collider.*)

ЛЕПТОН

PASS...
THE VALENCE.
NO NEED THE VALIDATION FOR I AM DENSITY.
FREELY,
WE WILL ALWAYS BE FUNDAMENTAL MATTERS.

(*ЛЕПТОН reveals herself, outside the collider. She dances across, parallel to the exterior of the collider. She leaves, without noticing QUARK.*)

[A sudden flash of light fills the insides of the collider. Blood may splatter within the inner walls of the collider. An echoing gunshot follows.]

(*TECHNICIANS scatter away.*)

(*QUARK feels the impact. A remarkably colourful attire swiftly clothes her. She collapses.*)

36. PROTON

(*QUARK lies inside the collider. She tries to budge, but energy has left her. She soon succumbs to her injuries.*)

[*The space brightens.*]

(*BOSON slyly arrives. He curves around to the entry of the collider. He cautiously enters the collider. He examines QUARK. He looks away.*)

(*ATOM hides themself in the collider. They hold onto the operator's control, like a weapon.*)

(*BOSON drags ATOM out.*)

37. FISSION

BOSON

I ENVISIONED THAT THINGS WOULD GO DOWN.
BUT I NEVER ENVISIONED WHAT'S UP.
I ENVISIONED HER RISE TO THE TOP.
YOU DON'T ENVISION ROCK BOTTOM.

ATOM

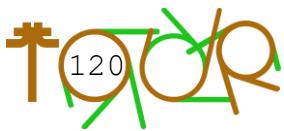
SHE HAD NO CHARM.
OUR CONFIGURATIONS HAVE BEEN JUST STRANGE.
WHAT HAS STILL LINGERED ARE HER FLAVOURS.
FORGET HER LIKE ETHER AS A FAVOUR.
THE WORLD NOW SPINS.

[*A spotlight centers on ATOM.*]

(*ATOM grows instable. They may cry.*)

BOSON

YOU MUST FISSION TO SEE THE WRITING.
THOUGH YOU DESERVE FISSION ON THE WALL.



BOSON (cont.)

YOU MUST FISSION TO KNOW SHE'S NOW LAW.
I HAVE TO FISSION YOU, ATOM.

[*The spotlight intensifies.*]

(*BOSON seizes the control.*)

(*ATOM grows unstable. They may laugh or cry, but they go insane.*)

ATOM

THERE ARE NO LAWS.
SHE HAD SPLIT US WITH RANDOMIZATION.
ALL THAT WAS IS PROBABILITY.
ALL THAT IS LEFT IS INSTABILITY.

(*Trying to crawl away into the collider.*)

THE WORLD NOW SPINS
LIKE THE SUN!

(*In the collider, BOSON smashes ATOM with the control. He splits ATOM.*)

38. PARITY

(*TECHNICIANS march in. They each discretely hold a horseshoe magnet. They encircle BOSON.*)

BOSON

THEY SAW THE LIGHT.
LASTING FISSION.
ATOM IS SPLIT.
CLEAN THE FALLOUT.

BOSON (cont.)

ENSURE SAFETY.

LET'S START OVER.

WHAT ARE YOU STANDING FOR?

(TECHNICIANS whip out their magnets. They point their magnets towards BOSON, like a circular firing squad.)

(BOSON loses control of his body.)

TECHNICIANS

BOSON.

WE HAVE COME TO REPEL
YOUR LIGHT!

BOSON

PHOTONS?!

MAGNETIC PHOTON!

I CANNOT BE A PARITY!

(Lowering to his knees.)

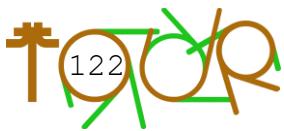
TECHNICIANS

BOSON.

NONE OF US WILL ATTRACT
YOUR MIGHT!

ATOM HAD ALWAYS PULLED US TOGETHER.
ATOM WILL HAVE AN EVERLASTING VISION!

(BOSON increasingly chokes.)

**BOSON**

ALL ARE
GOING AWOL-WOL.
MONOPOLE! IT'S A PARODY!

TECHNICIANS

BOSON.
CAN YOU JUST CONCENTRATE?
YOU MIND?

BOSON

I AM MODELLED BEYOND STANDARDS, BEYOND THIS COLLIDER!
I AM IN GAUGE AND SCALAR, COUPLED WITH LEP-

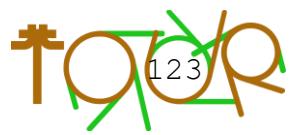
(Forcibly silenced.)

39. BARYON

(ЛЕПТОН makes her presence known from within the entry of the collider. She fearfully inspects an unrecognizable QUARK. She pushes away QUARK. She drags out ATOM's corpse.)

ЛЕПТОН

I'VE NO RESULTS IN THESE DAYS GONE.
NO LONGER HAVE SOMEONE PREON.
THIS IS FINAL, OUR LAST HOUR.
BARYON...
THROUGH THE COURSE
OF UNIVERSITY TOUR.
OF ACCELERATED TOUR.
OF UNIVERSAL TOUR.
BARYON...
UNDERNEATH
IS YOUR INNER GOD PARTICLE.
SIX TERRA 'LECTRON VOLTS UNDER.
PARTICULARLY ДЕРЬМО (der'mo).



(*BOSON mutely pleads to ЛЕПТОН to stop TECHNICIANS.*)

ЛЕПТОН (cont.)

BARYONS...

(*TECHNICIANS cock their magnets.*)

END THE LIGHT.

(*TECHNICIANS twist their magnets.*)

(*BOSON's neck snaps. He dies.*)

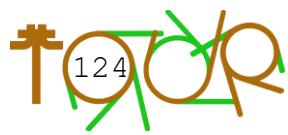
[*A darkness suddenly swallows everything but the entry of the collider.*]

(*ЛЕПТОН drags ATOM back into the collider.*)

(*TECHNICIANS rush away to escape from the darkness. Those who get caught in the darkness stop in their tracks and perhaps, die. They regrettably drag BOSON into the collider.*)

(*TECHNICIANS drop two magnets by ЛЕПТОН*)

(*ЛЕПТОН looks on at the darkness dwelling outside. She holds a magnet in each hand. She stares at ATOM. She looks at the space. She directs the magnets towards her head.*)

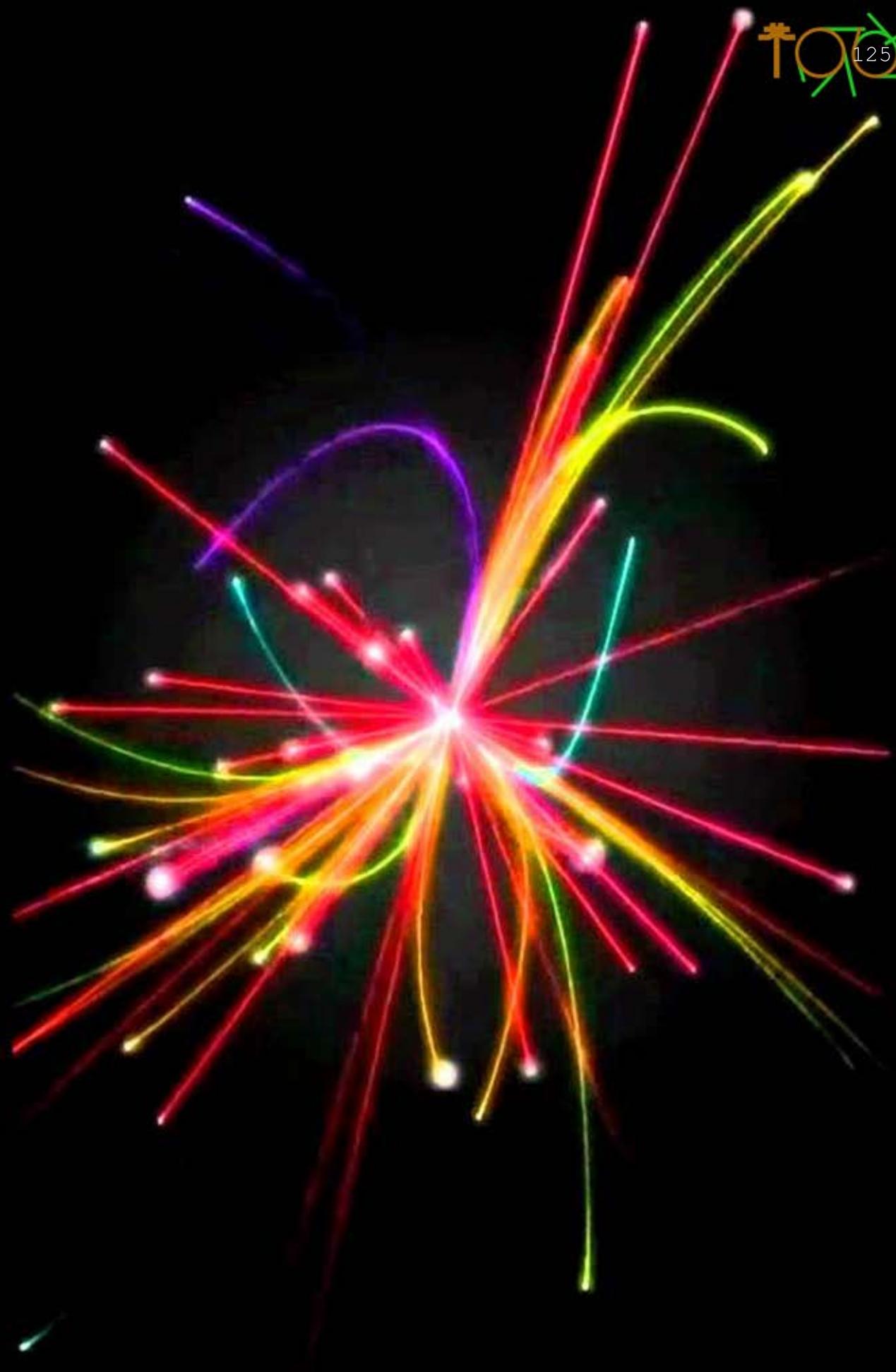


[Unnecessary, blood may splatter the inner walls of the collider.]

(ЛЕПТОН falls back, dead.)

End of Act -No Intermission-

TOUR
125



40. DECAY

[*Quantum World*]

(*QUARK is suited as a colourful particle.*)

[*The spotlight follows QUARK.*]

(*PARTICLES flow out from the entry of the collider. They shoulder QUARK. They gently set QUARK on her feet.*)

(*ЛЕНТОН is suited as a ghostly particle. She wanders out of the darkness. She spiritedly orbits QUARK.*)

(*BOSON is suited as a godly particle.*)

[*The space brightens.*]

(*PARTICLES carry out BOSON from the entry of the collider.*)

(*BOSON pridefully gets off of PARTICLES.*)

(*ATOM is suited as a massive particle. They shyly enter from the entry of the collider.*)

(*PARTICLES follow ATOM. They orbit ATOM.*)

41. SUPERSYMMETRY

*(QUARK, ЛЕПТОН, BOSON, ATOM, and PARTICLES
can only marvel at their supersymmetry.)*

QUARK

ЛЕПТОН

BOSON

ATOM

SUPERSYMMETRY.
 WE DREAMT TO BE WELL-ROUNDED.
 WE'RE ALL A PERFECT SPHERE.
 SUPERSYMMETRY.
 WE DREAMT TO BE WELL-ROUNDED.
 WE'RE ALL A PERFECT SPHERE.

[Time is stasis.]

(ATOM looks at their shadow. They split off.)

PARTICLES

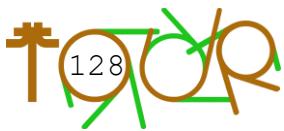
SUPERPARTNERS. SUPERPARTNERS.
 GIVE OUR ALL TO OUR PARTING GOALS.
 SUPERPARTNERS. SUPERPARTNERS.
 NO LONGER GROUNDED. LIVE EXCITED STATES.

(QUARK vanishes.)

SUPERPARTNERS. SUPERPARTNERS.
 GIVE OUR ALL TO OUR PARTING GOALS.
 SUPERPARTNERS. SUPERPARTNERS.
 OPERATORS. THE WAVE FUNCTIONS.

(ЛЕПТОН scatters away.)

SUPERPARTNERS. SUPERPARTNERS.
 GIVE OUR ALL TO WORLDS OF PHYSICS.
 SUPERPARTNERS. SUPERPARTNERS.



PARTICLES (cont.)

CONCLUDES OUR TOUR. SUPERSYMMETRY.

(*Perfectly spinning.*)

BOSON

YOU SPARTICLES.

(*Having enough and leaving.*)

[*Blackout.*]

42. KNOT (bow)

(*BOSON arrives, in front of marching PARTICLES.*)

[*Lights up.*]

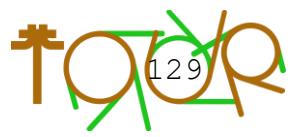
(*BOSON bows.*)

(*ЛЕНТОН arrives, orbiting PARTICLES. She bows.*)

(*QUARK arrives with PARTICLES orbiting her. She bows.*)

(*ATOM arrives with PARTICLES orbiting them. They bow.*)

(*PARTICLES merge together away from QUARK, ЛЕНТОН, BOSON, and ATOM. They bow.*)



(*QUARK, ЛЕПТОН, BOSON, and ATOM* fuse. They bow.)

(*Optionally, PARTICLES orbit ORCHESTRA.*)

(*Optionally, QUARK, ЛЕПТОН, BOSON, and ATOM pull out CREW.*)

(*Fondly, PARTICLES orbit AUDIENCE MEMBERS, especially those who are isolated.*)

Close circuit

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