TOUR

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A Musical

by

David Quang Pham

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**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

Kaliyah Jetton Original Unofficial Reader

Collin Bailey Jonkman Original Unofficial Reader

Rebecca Chan Original Unofficial Reader

Vanessa Bond Original Unofficial Reader

Brian de Vries Original Unofficial Reader

Madelyn Paquette First Reading Host (April 24, 2020)

Haley Baird Originated Reader of Quark

Bianca Waechter Originated Reader of Лептон

Peter Louis Epstein Originated Reader of Boson

Carina Goebelbecker Originated Reader of Atom

Monica Cross Originated Reader of the ensembles

Marie Incontrera Originated Narrator

Kami Visitsak Originated Singer of Quark

Diana Easter Originated Singer of Лептон

Brian Egland Originated Singer of Boson

Rina Lubit Originated Singer of Atom

**SYNOPSIS**

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 main characters from underrepresented racial minorities are not recommended. Casting the main characters from underrepresented racial minorities are required.

**Character** **Vocal Range**  **Gender**

QUARK Mezzo-Soprano — Soprano Woman

A student and physicist.

ЛЕПТОН (lepton) Alto Woman

A doctoral advisor and lab supervisor.

BOSON Baritone — Tenor Man

A professor and lab director.

ATOM Currently: Soprano Any

A scholar and right-hand scientist.

**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. [Eigen](https://www.tourmusical.com/music/1-eigen) ATOM

2. [Symmetry](https://www.tourmusical.com/music/2-symmetry) ЛЕПТОН**|**BOSON**|**ATOM**|**students

3. [Exchange Particle](https://www.tourmusical.com/music/3-exchange_particle) QUARK**|**ATOM

4. [Torsion](https://www.tourmusical.com/music/4-torsion) QUARK**|**ЛЕПТОН

5. [Available Energy](https://www.tourmusical.com/music/5-available_energy) QUARK

6.a. Tachyon QUARK**|**BOSON**|**ATOM**|**ЛЕПТОН**|**students

7. Nuclide QUARK**|**BOSON**|**ATOM

8. [Entanglement](https://www.tourmusical.com/music/8-entanglement) QUARK**|**BOSON

9. Crossing Field Lines QUARK**|**BOSON

10. Centration QUARK**|**BOSON**|**research assistants

11. G QUARK**|**ЛЕПТОН**|**ATOM**|**professors

12. Anyon QUARK

13. [Valence](https://www.tourmusical.com/music/13-valence) QUARK**|**ЛЕПТОН**|**ATOM**|**students

14. [Effusion](https://www.tourmusical.com/music/14-effusion) QUARK

15.a. Super Collide QUARK**|**ЛЕПТОН**|**technicians

16. [Particulate](https://www.tourmusical.com/music/16-particulate) QUARK**|**ATOM

17.a. Slepton QUARK**|**BOSON**|**ATOM**|**politicians**|**technicians

18. [Backscatter](https://www.tourmusical.com/music/18-backscatter) 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. Hadron 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. [Baryon](https://www.tourmusical.com/music/39-baryon) QUARK**|**ЛЕПТОН**|**ATOM

40. [Decay](https://www.tourmusical.com/music/40-decay) 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 DESKholding magnets, metals, a light bulb, wire

II 83 Accelerator COLLIDER**|**papers,pens,operator’s control,magnets

III 123 Quantum World COLLIDER



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| [**1. EIGEN**](https://www.tourmusical.com/music/1-eigen) |

SCENE i

*[University]*

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

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| [**2. SYMMETRY**](https://www.tourmusical.com/music/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**

[Atom describes particles.]

**STUDENTs**

[Particles describe the makeup of an atom.]

**ATOM**

[Atom jokes about their disarray.]

*(STUDENTs increasingly grow orderly.)*

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

**ЛЕПТОН**

[Лептон humanizes PARTICLEs as STUDENTs.]

**STUDENTs**

[Students describe the makeup of a lepton.]

**ЛЕПТОН**

[Лептон believes in good coming from disarray.]

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

*[The space brightens.]*

*(BOSON strolls in.)*

**BOSON**

[Boson gives news that a new particle joining them.]

**STUDENTs**

[Students describe the makeup of a boson.]

**BOSON**

[Boson warns that this new student brings something new.]

**STUDENTs**

[Particles/Students state their “We Want.”]

*(Barely spinning.)*

**ATOM**

[Atom reassures that this world will not change.]

*(Greeting the world by waving their arm.)*

*[A colourful presence spills into the space.]*

*(STUDENTs sense the colourful presence.)*

**STUDENTs**

[Particles/Students twist their wants with the general story.]

*(Scattering around.)*

*(ЛЕПТОН takes the scantrons from ATOM. She scatters away.)*

*(BOSON intriguingly observes. He departs.)*

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

*(STUDENTs scatter away.)*

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

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| [**3. EXCHANGE PARTICLE**](https://www.tourmusical.com/music/3-exchange_particle) |

*(QUARK wanders in.)*

**QUARK**

[Quark tries to fit in.]

*(ATOM sees through QUARK. They dismiss her.)*

[Quark questions why Atom won’t let her fit in.]

*(Humbling herself.)*

[Quark admits that she makes no sense and does not quite understand how she got here in this fine establishment.]

*(Giving up.)*

[Quark feels humiliated.]

**ATOM**

[Atom respects when particles don’t lie to themselves.]

*(ATOM scans the schedule on the particle board.)*

**ATOM**

[Atom introduces Quark.]

*(QUARK swiftly rips out the schedule.)*

**QUARK**

[Quark is an eager student again.]

*(Reading the schedule.)*

[Quark is excited to get into Boson’s (the bright particle) class. Quark unintentionally foreshadows Atom’s retaliation.]

*(ATOM departs.)*

*(QUARK aches.)*

[Quark thought Atom would now be her acquaintance.]

*(Ripping apart and dropping the schedule.)*

[Quark exchanges thermodynamic degrees and collegiate degrees.]

*(Nearing the particle board.)*

[Quark exchanges the physics field (magnetic/career) and explains how cutthroat it is in either.]

*(Grabbing a tack from the box.)*

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

[Quark is about to exchange academia.]

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

**QUARK**

[Quark exchanges a sense of direction of the versions of herself on the standard model.]

*(Grabbing the box.)*

[Quark exchanges standard model with being a standard modelled student.]

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

[Quark states the complex networking of the physics field.]

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

[Quark reaffirms that with work, she will amount to fitting in. Regardless of being foreign.]

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

[Quark comforts herself and focuses.]

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

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| [**4. TORSION**](https://www.tourmusical.com/music/4-torsion) |

*(ЛЕПТОН strolls in.)*

*(QUARK collides into ЛЕПТОН.)*

*(ЛЕПТОН twists herself into a pretzel.)*

**ЛЕПТОН**

[Лептон is foreign to the audience but not in this world.]

*(QUARK helps ЛЕПТОН up.)*

**QUARK**

[Quark does not mean to get in the way on her quest.]

**ЛЕПТОН**

[Лептон wants to know what’s Quark’s wants.]

*(QUARK tries to flee.)*

*(ЛЕПТОН grabs ahold of QUARK.)*

[Лептон interplays the course as easy and its course being the speed of light.]

**QUARK**

[Quark explains that a degree, whether thermodynamics or college, needs these twists and turns and obstacles to manage.]

*(ЛЕПТОН releases QUARK.)*

**ЛЕПТОН**

[Лептон recalls the days when she didn’t fit in.]

*(Motioning towards herself.)*

[Лептон is only open about what is ahead.]

*(Directing out.)*

[Лептон is fixated about what is present.]

*(Adjusting herself.)*

[Лептон introduces herself.]

*(Hurrying off.)*

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| [**5. AVAILABLE ENERGY**](https://www.tourmusical.com/music/5-available_energy) |

[Quark’s “I Want to be a Physicist” song.]

**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.

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| **6. TACHYON** |

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

*(ATOM speaks after the long silence.)*

**ATOM**

[Atom is trying to keep order, per usual.]

*[The space slightly brightens.]*

[Atom has upmost respect for Boson.]

**STUDENTs**

[Students describe Boson in depth.]

**QUARK**

[Quark makes an educated joke about professors’ lifestyles.]

*(STUDENTs tap their heads.)*

**STUDENTs**

[Students state that Quark is sharp in a tacky manner.]

*[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**

[Students are showing their true naïve colours.]

*(BOSON dismisses the answer.)*

*(ATOM tugs at their chest.)*

**STUDENT**

[Students are showing their true naïve colours.]

**STUDENT**

[Students are showing their true naïve colours.]

*(ATOM lets go of their chest.)*

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

*(QUARK solely hears the explosion.)*

**STUDENT**

[Students are showing their true naïve colours.]

**STUDENT**

[Students are showing their true naïve colours.]

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

**ATOM**

[Atom is showing that they stand out.]

*(STUDENTs ponder.)*

[Atom is still fixed on a fixed world.]

*(STUDENTs hysterically laugh.)*

*(ATOM seems brokenhearted.)*

*(QUARK sticks out.)*

*(STUDENTs ponder.)*

**QUARK**

[Quark explains that the world is everchanging.]

**BOSON**

[Boson, the bright particle, reaffirms that Quark is sharp.]

**STUDENTs**

[Students figure out that Quark is *the* new particle.]

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

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| --- | --- |
| **BOSON**  LET IT FLOW. \_\_\_\_\_DO BUILD YOUR NEST. \_\_\_\_\_DO THEY ATTRACT \_\_\_\_\_ATTENTION | **STUDENTs**  'LECTRICITY! \_\_\_\_\_WITH 'LECTRONICS! \_\_\_\_\_SO MAGNETIC! |

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| **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**

[Boson is demonstrating that are in control of the grand experiment that is this choreographical story.]

**STUDENTs**

[Students use the physics-equivalent “dear”: “tau”.]

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

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

**STUDENT**

[Students are being cringy.]

**STUDENTs**

[Students are being cringy.]

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

**STUDENT**

[Students make cringy jokes.]

**STUDENTs**

[Students make curiously cringy explanations.]

*(ATOM reaches for another STUDENT.)*

**ATOM**

[Atom is trying to assert power.]

**STUDENTs**

[The first instance that Atom is getting outcasted.!

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

**BOSON**

[Boson shows a distinct interest in Quark.]

**QUARK**

I WOULD BE HONOURED.

*(Accepting the magnet.)*

**STUDENTs**

[Students explain Quark is getting picked up but mockingly.]

**QUARK**

[Quark is young and naïve and assume this is “attraction.”]

**STUDENTs**

[Students are taking note of Quark’s budging into their lives.]

**BOSON**

[Boson unintentionally uses the physics-equivalent word to “repel”: “rebel.”]

*(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.)*

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| **6a. TACHYON (reprise)** |

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

**BOSON**

[Boson becomes the first character to go from college to career.]

**STUDENTs**

[Students show upmost respect for Boson.]

*(BOSON remains silent.)*

**STUDENTs** (cont.)

[Students state Boson’s humanistic traits as quiet person.]

*(BOSON waves STUDENTs off.)*

[Students unintentionally use the physics-equivalent “repel.”]

*(Departing.)*

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| **7. NUCLIDE** |

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

**ATOM**

[Atom insists that Boson could entangle himself for a while as a professor in the university. Atom also knows it has been a ride.]

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

**BOSON**

[Boson establishes that he has profound respect for Atom.]

*(Embracing ATOM.)*

**ATOM**

[ 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.)*

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| [**8. ENTANGLEMENT**](https://www.tourmusical.com/music/8-entanglement) |

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

*(BOSON reads the thesis.)*

**BOSON**

[Boson is alluded as a French speaker, based on the influence that France and Switzerland has on accelerator physics.]

*(Setting aside the thesis.)*

FLUXING DOWN AN UNDERGRADUATE THESIS?

*(QUARK nods.)*

LEFT COLLEGE IN FRACTION OF TIME BUT STILL PROUD, YOU MAY JUST PROFESS

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

**BOSON** (cont.)

IN NO TIME. ARE YOU INTO QUANTUM ENTANGLEMENT? STILL MAGNETIC EXCITATION TO BE FOUND. YOU GIVEN PICKING UP PHOTONS FOR A CHANCE? A COUPLED QUBITS? LITTLE HIGH ENERGY.

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

MAGNETIC, BARS, MOMENTS.

*(Shaking QUARK.)*

WHEN WE’RE YOUNG, MAKING WAVES. PARTICLE HORIZON’S A FLASH,

*(Releasing QUARK.)*

REACH ENLIGHTENMENT.

*(QUARK distances.)*

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

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

EXCEL IN THE ACCELERATOR.

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

RESEARCH COLLABORATION. INDEPENDENT SCHOLAR.

*(Shrugging off.)*

VACUUM, THERE’S NOTHING TO PROVE—

*(Switching topics.)*

**BOSON** (cont.)

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

*(QUARK eyes the field line diagram.)*

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

FIELD THEORIES PROPOSED, WILL YOU

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

QUANTUM ENTANGLE ME?

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| **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.)*

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| **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.)*

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| **BOSON**  'TRATE. | **RESEARCH ASSISTANTs** |

*(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 A*GGREGATION. OUTLIER!

*(Pointing to QUARK.)*

APPLY CENTRATION.

*(RESEARCH ASSISTANTs encircle QUARK.)*

CONCEN—

|  |  |
| --- | --- |
| **BOSON**  TRATE. | **RESEARCH ASSISTANTs** |

*(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  A FORMER DOCTORAL \_\_\_\_\_CANDIDATE.  **ЛЕПТОН** (cont.)  PHYSICS, CLASSIC, QUANTUM, \_\_\_\_\_BASIC, NEVER SLEEP. | **PROFESSORs**  YOU’LL KNOW G-FORCE.  **PROFESSOR**  A BURDEN SO PECULIAR. \_\_\_\_\_WEAK.  **ATOM**  \_\_\_\_\_PUPIL BRINGS LONG \_\_\_\_\_DAYS, SHORT NIGHTS, \_\_\_\_\_ATOMIC WEEKS.  **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. |

*(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**](https://www.tourmusical.com/music/13-valence) |

*(STUDENTs wander about.)*

**STUDENTs**

|  |  |
| --- | --- |
| IT’S HIGHER ENERGY LEVEL. \_ \_\_\_\_\_IT’S HIGHER ENERGY LEVEL. | THIS HIGHER EDUCATION \_\_\_\_\_HAUL. \_\_\_\_\_THIS HIGHER EDUCATION \_\_\_\_\_HAUL. |

*(ЛЕПТОН 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. |

**ЛЕПТОН**

ALARM, INFREQUEN—

*(Chucking the alarm.)*

**STUDENTs**

|  |  |
| --- | --- |
| THIS EMISSION LEADS TO \_\_\_\_\_GROUND STATE. | THAT ADMISSION LEAVES \_\_\_\_\_YA GROUNDED. |

*(ЛЕПТОН hands a paper to QUARK.)*

**ЛЕПТОН**

SEE

**STUDENTs**

|  |  |
| --- | --- |
| WHO IS THIS EDUCATED \_\_\_\_\_SPOIL? | WHAT A LOW ENERGY \_\_\_\_\_LEVEL. |

**ЛЕПТОН**

TO INTEGRATION.

**STUDENTs**

|  |  |
| --- | --- |
| WHO IS THIS EDUCATED \_\_\_\_\_SPOIL? | WHAT A LOW ENERGY \_\_\_\_\_LEVEL. |

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

**ЛЕПТОН**

DERIVE ON.

**STUDENTs**

|  |  |
| --- | --- |
| WHO IS THIS EDUCATED \_\_\_\_\_SPOIL? | WHAT A LOW ENERGY \_\_\_\_\_LEVEL. |

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

**ЛЕПТОН**

POSTULATE. A POS— THINK SPHERE.

**STUDENTs**

|  |  |
| --- | --- |
| WHO IS THIS EDUCATED \_\_\_\_\_SPOIL? | WHAT A LOW ENERGY \_\_\_\_\_LEVEL. |

**QUARK**

CHECK VALIDITY.

**STUDENTs**

|  |  |
| --- | --- |
| JUMP UP THOSE ENERGY \_\_\_\_\_LEVELS! | BUMP OUT SOME ENDLESS \_\_\_\_\_CREDENTIALS! |

*(ЛЕПТОН eyes STUDENTs.)*

|  |  |
| --- | --- |
| **QUARK**  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. |

*(ATOM passes around the cheat sheets.)*

|  |  |
| --- | --- |
| \_\_\_\_\_IF YOU \_\_\_\_\_ARE HIGHER \_\_\_\_\_LEVEL \_\_\_\_\_THOUGH FAILURE, \_\_\_\_\_THEY CAN TOO! | \_\_\_\_\_CONTRIBUTION. \_\_\_\_\_CONTRIBUTION. \_\_\_\_\_CONTRIBUTION. \_\_\_\_\_CONTRIBUTION. \_\_\_\_\_CONTRIBUTION. \_\_\_\_\_CONTRIBUTION. |

*(ЛЕПТОН holds back QUARK.)*

**ЛЕПТОН**

THEY’LL GET ELECTRONS.

*(STUDENTs pass around scantrons.)*

**STUDENTs**

DISTRIBUTION OF THE SCANTRONS.

**ЛЕПТОН**

THEY’LL GROUP THE ELEMENTS.

*(STUDENTs group together.)*

**STUDENTs**

|  |  |
| --- | --- |
| NODES, ORBITALS. \_\_\_\_\_NODES, ORBITALS. | NEUTRAL CIRCLES. \_\_\_\_\_NEUTRAL CIRCLES. |

**ЛЕПТОН**

THEY’LL CONFIGURATE.

*(STUDENTs form circles.)*

**STUDENTs**

|  |  |
| --- | --- |
| NODES, ORBITALS. \_\_\_\_\_NODES, ORBITALS. | NEUTRAL CIRCLES. \_\_\_\_\_NEUTRAL CIRCLES. |

**ЛЕПТОН**

THEY’LL COME OUT THEIR SHELLS.

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

**STUDENTs**

|  |  |
| --- | --- |
| NODES, ORBITALS. \_\_\_\_\_NODES, ORBITALS. | NEUTRAL CIRCLES. \_\_\_\_\_NEUTRAL CIRCLES. |

**ЛЕПТОН**

THEY’LL FIND OUT THEY’RE VALIANT.

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

**STUDENTs**

|  |  |
| --- | --- |
| NODES, ORBITALS. \_\_\_\_\_NODES, ORBITALS. | NEUTRAL CIRCLES. \_\_\_\_\_NEUTRAL CIRCLES. |

|  |  |
| --- | --- |
| **ЛЕПТОН**  QUARK, \_\_\_\_\_ASSISTANT, \_\_\_\_\_YOU’LL NOT \_\_\_\_\_FAIL. \_\_\_\_\_QUARK, \_\_\_\_\_ASSURANCE, \_\_\_\_\_YOU NEED \_\_\_\_\_NO VAL— | **STUDENTs**  MOTIVATION. \_\_\_\_\_MAKE ASSUMPTIONS. \_\_\_\_\_NATURAL EQUATIONS. \_\_\_\_\_DIRECT NOTATIONS. \_\_\_\_\_GENERATIONS. \_\_\_\_\_INFORMATION. \_\_\_\_\_OBSERVATION. \_\_\_\_\_SHELLED ELECTRONS! |

*(QUARK openly dismisses ЛЕПТОН.)*

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

**ЛЕПТОН**

DON’T TAKE IT.

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

*(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. \_\_\_\_\_VALENCE ELECTRONS. | VALIDATION. \_\_\_\_\_VALIDATION. |

**ЛЕПТОН**

VALIDITY.

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

THERE’S

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

NO NEED SEARCHING

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. \_\_\_\_\_VALENCE ELECTRONS. | VALIDATION. \_\_\_\_\_VALIDATION. |

**ЛЕПТОН**

VALIDITY.

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

THE HEART

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

OF PHYSICS

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

PUMPS

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

VALIDITY.

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

NEED

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. | VALIDATION. |

**ЛЕПТОН**

NO VALIDATION.

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

**STUDENTs**

|  |  |
| --- | --- |
| VALENCE ELECTRONS. \_\_\_\_\_VALENCE ELECTRONS. \_\_\_\_\_JUMP! | VALIDATION. \_\_\_\_\_VALIDATION. \_\_\_\_\_BUMP! |

*(ЛЕПТОН departs.)*

*(STUDENTs orbit away.)*

|  |
| --- |
| [**14. EFFUSION**](https://www.tourmusical.com/music/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]*

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

**ЛЕПТОН**

HOWDY. JOIN IN THE CIRCUIT!

*(Pointing in the distance.)*

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

**QUARK**

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

*(ЛЕПТОН wanders off.)*

END UP WITH DESERTS.

*(Noticing ЛЕПТОН’s disappearance.)*

NOT THE COURSE TO DESERT THIS 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 THEORIZE… SUPER COLLIDE.

*(QUARK presses on the control.)*

BEAMS SUPER COLLIDE!

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

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

*(Trying to raise QUARK.)*

QUARK.

*[Particles collide.]*

BEHOLD THE DESERTRON! SUPERCONDUCTING SUPER COLLIDER! A SMASH.

*[Particles move along and around.]*

**QUARK**

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

|  |  |
| --- | --- |
| **QUARK**  QUANTA. | **TECHNICIANs**  RAYS! |

**QUARK**

*(Feeling matters.)*

ENERGY BUNDLES.

|  |  |
| --- | --- |
| **QUARK**  STANDARD | **TECHNICIANs**  FORCE! |

**QUARK**

MODEL.

*(Growing antsy.)*

THEORIZED

|  |  |
| --- | --- |
| **QUARK**  'NOUGH. | **TECHNICIANs**  NOWT. |

*(QUARK deactivates the control.)*

*(TECHNICIANs collide with one another.)*

**TECHNICIANs**

|  |  |
| --- | --- |
| QUARK! JUST GOT YOURSELF ROLLING! | |
| SPIN PARTICLES AT HOME. \_\_\_\_\_PASS BY NICE PROTONS. \_\_\_\_\_STEER MAGNETIC FIELDS. \_\_\_\_\_REACH THE SPEED OF LIGHT. | GET PARTICLES IN TUBE. \_\_\_\_\_SAY HI TO 'LECTRONS. \_\_\_\_\_FEEL THE ENERGY. \_\_\_\_\_LIGHTEN UP, WILL YA? |

**ЛЕПТОН**

COL—

*(TECHNICIANs collide and gather.)*

**TECHNICIANs**

|  |  |
| --- | --- |
| 'LIDE! \_\_\_\_\_SCIENTISTS, BUILDERS, PLAYERS, FRIENDS, AND \_\_\_\_\_FAMILY ALL \_\_\_\_\_GATHER HERE THERE AROUND HUMAN’S GREATEST \_\_\_\_\_FEAT | |
| UNDER. | EVER. |

**ЛЕПТОН**

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

*(Interacting and colliding.)*

**TECHNICIANs**

LUXURY SCIENCE IN A DESERT!

*(Interacting and colliding.)*

*(QUARK rein in the particles.)*

|  |  |
| --- | --- |
| **ЛЕПТОН**  AT DESERTRON.  **QUARK**  SUPERNATURAL.  **ЛЕПТОН**  CONDUCT YOURSELF.  **QUARK**  SUPERVISION.  **ЛЕПТОН**  COLLIDE OTHERS. | **TECHNICIANs**  ENERGY, CAN YOU FEEL \_\_\_\_\_IT, GAIN THE MAGNET!  REACH THE SPEED OF  LIGHT!  ANTI-QUARK MATTERS  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.)*

**ЛЕПТОН**

QUARK. SUPER CONDUCT YOURSELF, CANDIDATE. JOB INTERVIEW, I’VE GOT TO GO. IT’S MY COLLISION COURSE.

*(Departing.)*

|  |
| --- |
| [**16. PARTICULATE**](https://www.tourmusical.com/music/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! |

*(ATOM stirs.)*

**BOSON**

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

**POLITICIANs**

ATOM…

*(BOSON addresses ATOM.)*

**BOSON**

LISTEN HERE BUM, THERE IS NOTHING TO GLUON.

**POLITICIANs**

SPLIT.

**BOSON**

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

*(ATOM rhythmically claps.)*

**POLITICIANs**

*(Rhythmically slapping cash against their hands.)*

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

*(ATOM riles up.)*

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

|  |  |
| --- | --- |
| **QUARK**  ATOMIC. \_\_\_\_\_CREATION. \_\_\_\_\_BIRTHS NEW LIFE. \_\_\_\_\_DON’T SELL OUT TO \_\_\_\_\_DESTRUCTION! | **POLITICIANs**  TICKED! |

**BOSON**

YOU HAVE THE POTENTIAL, JUST NEED A LITTLE FORCE.

*(Presenting nominal cash.)*

**QUARK**

DROP…

**POLITICIANs**

FUNCTION…

**QUARK**

KINETIC.

*(Removing the cash from BOSON.)*

**BOSON**

TAKE A POSITION, THIS IS YOUR MOMENTUM.

**POLITICIANs**

RAN.

**QUARK**

ALL LAGRANGIAN.

**BOSON**

LET THE ENERGIES BE HAMILTONIAN.

**POLITICIANs**

SUM.

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

**ATOM**

NUCLEAR NOW!

*(ATOM tears apart the control.)*

*(QUARK helplessly watches.)*

**BOSON**

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

**POLITICIANs**

SLAP ON IT!

**BOSON**

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

*(Pinching his thumb and index finger.)*

ENERGIES, RUN FREE.

**POLITICIANs**

SLEEP IT OFF! SCIENCE DON’T NEED FUNDS!

*(QUARK weeps.)*

**POLITICIANs**

|  |  |
| --- | --- |
| CRY AWAY. | |
| PHYSICS GONE! | PHYSICS DEAD! |

**BOSON**

DO SLEPTON IT. SUPER COL— WHAT, SQUARK.

**POLITICIANs**

|  |  |
| --- | --- |
| GO AWAY… | GO DECAY… |

**BOSON**

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

**POLITICIANs**

|  |  |
| --- | --- |
| DESERTRON’S DONE! | SUPER GOODBYE! |

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

|  |
| --- |
| **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**](https://www.tourmusical.com/music/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.

**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 \_\_\_\_\_THEORIZED 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**

DETRIMENTAL 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. | **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 THEORIZE, PERHAPS PREON? JUST HAVE A BELIEF. POSITRON TO 'LECTRON, DON’T BE ANTIMATTER ON ME NOW. JUST LIGHTEN UP, BE BRIGHTER COMRADE.

**QUARK**

TRY TO 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 (hooy). QUARK, P H D.

|  |  |
| --- | --- |
| **QUARK**  PRAISE BE. | **ЛЕПТОН**  PREON. |

*[The space brightens.]*

*(QUARK intimately hold her gaze.)*

*(ЛЕПТОН anxiously meets QUARK’s gaze.)*

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

*[Blackout.]*

*End of Act*

|  |
| --- |
| **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.)*

*(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.

*(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 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.)*

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

*(QUARK twirls her finger around her head.)*

**QUARK** (cont.)

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 podʺjóm 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.)*

|  |
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| **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.)*

**BOSON** (cont.)

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. 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.)*

**BOSON** (cont.)

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.)*

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| **26. HADRON** |

*[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**

HADRON ON!

**TECHNICIANs**

HADRON ON!

**TECHNICIAN**

ACCELERATE!

*(ЛЕПТОН and QUARK run around.)*

*(BOSON disappointedly heads towards the collider.)*

*(ATOM roam 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!

**ЛЕПТОН** (cont.)

ACCELERATE! ACCELERATE! ACCELERATE! ACCELERATE!

*(Tapping QUARK.)*

**QUARK**

ACCELERATE!

|  |  |
| --- | --- |
| **ЛЕПТОН** | **TECHNICIANs** |

ACCELERATE!

**ATOM**

ALL’S ATOM SMASHING!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**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**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**TECHNICIAN**

LARGE HADRON COLLIDER!

**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 accidently 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.

*(Heading to BOSON.)*

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.)*

**ATOM** (cont.)

JUST FUSION.

*(ЛЕПТОН head to BOSON and ATOM. She splits BOSON and ATOM.)*

LET US GO NUCLEAR FUSION.

*(ЛЕПТОН directs BOSON to QUARK. She accompanies ATOM out.)*

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| **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.)*

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

**QUARK** (cont.)

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.)*

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.)*

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| **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!

**TECHNICIANs**

HYPERCHARGE! HYPER! HYPER!

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

**ЛЕПТОН**

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

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

**TECHNICIANs**

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

**ЛЕПТОН**

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…

*(Motioning towards themself.)*

*(ЛЕПТОН excitedly moves towards ATOM.)*

THERE ARE ORBITALS. OUT THERE FOR ME.

**ЛЕПТОН**

AGREED.

*(Orbiting ATOM.)*

*(ATOM joins in 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.)*

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| --- |
| **30. ISOSPIN** |

*(BOSON 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…

**ЛЕПТОН**

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 ЛЕПТОН 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.)*

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

*(Directing ATOM.)*

ISOSPIN YOUR TIME WITH THIS SQUARK.

*(Leaving.)*

*(ATOM leaves.)*

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| **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—

*(Closing the entry of the collider.)*

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!

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| **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.)*

**BOSON** (cont.)

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.

*(Immediately pivoting 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.

**BOSON** (cont.)

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.)*

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| --- |
| **33. PION** |

**QUARK**

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

**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 COMPARES. SECONDARY. I AM WELL-OFF AS AN OLD DEUTERAGONIST. PRIMARI— REALLY, POSITIVITY, NEUTRALITY ARE THEIRS. SECONDARY.

*(ATOM hopelessly walks away.)*

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| **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.)*

**ЛЕПТОН**

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!

*(Tenderly entering the collider.)*

**ЛЕПТОН**

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

*(Revealing 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.)*

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| **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.)*

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| **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. YOU MUST FISSION TO KNOW SHE’S NOW LAW. I HAVE TO FISSION YOU, ATOM.

*[The spotlight intensifies.]*

*(BOSON seizes the control.)*

*(ATOM grows instable. 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. BOSON splits ATOM.)*

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| **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. 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.)*

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| [**39. BARYON**](https://www.tourmusical.com/music/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. WE’RE 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.)*

*{Option Alpha α}*

*(ЛЕПТОН strolls into the darkness. She goes missing.)*

*{Option Beta β}*

*(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–*

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| [**40. DECAY**](https://www.tourmusical.com/music/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.)*

*(ЛЕПТОН 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.)*

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| **41. SUPERSYMMETRY** |

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

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| **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. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS.

*(QUARK vanishes.)*

SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS.

*(ЛЕПТОН scatters away.)*

SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS. SUPERPARTNERS.

**PARTICLEs** (cont.)

CONCLUDES OUR TOUR. SUPERSYMMETRY.

**BOSON**

YOU SPARTICLES.

*(Having enough and leaving.)*

*[Blackout.]*

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| **42. KNOT (bow)** |

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

*[Lights up.]*

*(BOSON bows.)*

*(ЛЕПТОН 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, ЛЕПТОН, 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.)*

*Close circuit*