

### Physiology:

- 1. Sex woman
- 2. Age adult
- 3. Height and Weight most average of the 3 existing main characters (Boson, Atom)
- 4. Color of hair, eyes, skin black, brown, dark
- 5. Posture bad
- 6. Appearance: good-looking, over or underweight, clean, neat, pleasant, untidy. shape of head, face, limbs. indecent-looking, average weight, untidy
- 7. Defects: deformities, abnormalities, birthmarks. Diseases. abundant scarring
- 8. Heredity

### Sociology:

- 1. Class: lower, middle (where on this LARGE scale, or is this scale small due to the time period), upper universally lower
- 2. Occupation: type of work, hours of work, income, condition of work, union or nonunion, attitude towards organization, suitability for work. doctoral candidate
- 3. Education: amount, kind of schools, marks, favorite subjects, poorest subjects, aptitudes. at least secondary education, fervently believes in accelerator physics
- 4. Home life: parents living, earning power, orphan, parents separated or divorced, parents' habits, parents' mental development, parents' vices, neglect. Characters marital status.
- 5. Religion spiritually into particles
- 6. Race, nationality, cultural background Latina
- 7. Place in community: leader among friends, clubs, sports.
- a supervisor and mentor
- 8. Political affiliations socialistic > capitalistic
- 9. Amusements, hobbies: books, newspapers, magazines they read ballroom dancing



### Psychology:

- 1. Sex life, moral standards attracted to Atom
- 2. Personal premise, ambition push for more particles to look inward and love themselves and particles
- 3. Frustrations, chief disappointments hidden depression
- 4. Temperament: choleric, easygoing, pessimistic, optimistic. seemingly optimistic
- 5. Attitude towards life: resigned, militant, defeatist. suicidal
- 6. Complexes: obsessions, inhibitions, superstitions, phobias. carrying props
- 7. Extrovert, introvert, ambivert introvert
- 8. Abilities: languages, talents English, Russian, dancing
- 9. Qualities: imagination, judgment, taste, poise.
- 10. I.Q. >>100





## MUSICAL NUMBERS

ЛЕПТОН leads the song.

ЛЕПТОН splits the song.

QUARK JEETOH QUARK JEETOH QUARK JEETOH JEETOH Students  Available Energy QUARK QUARK JEOSON ATOM JEETOH Students  Auclide QUARK JEOSON ATOM QUARK JEOSON ATOM  Crossing Field Lines QUARK JEETOH ATOM Professors  QUARK JEETOH ATOM Professors  QUARK JEETOH ATOM Students  QUARK JEETOH ATOM Students  QUARK JEETOH ATOM Students  QUARK JEETOH ATOM Students  QUARK JEETOH ATOM STUDENT ATOM			
QUARK JEHTOH QUARK JEHTOH QUARK BOSON AVAILABLE Energy QUARK QUARK BOSON ATOM JEHTOH Students QUARK BOSON ATOM JEHTOH Students QUARK BOSON ATOM QUARK BOSON ATOM AND AVAILABLE AND AVAIL	2.	Symmetry	ЛЕПТОН   BOSON   ATOM   students
QUARK   BOSON  ATOM  JEHTOH  students   QUARK  BOSON  ATOM  JEHTOH  students   QUARK  BOSON  ATOM  QUARK  BOSON  ATOM  ATOM  JEHTOH  students   QUARK  BOSON  ATOM  ATOM	3.	Exchange Particle	QUARK ATOM
QUARK BOSON ATOM JEHTOH students  7. Nuclide QUARK BOSON ATOM JEHTOH students  8. Entanglement QUARK BOSON  9. Crossing Field Lines QUARK BOSON research assistants  10. Centration QUARK BOSON research assistants  11. G QUARK JEHTOH ATOM professors  12. Anyon QUARK  13. Valence QUARK JEHTOH ATOM students  14. Effusion QUARK  15. a. Super Collide QUARK JEHTOH technicians  16. Particulate QUARK JEHTOH technicians  18. Backscatte QUARK JEHTOH  19. Electroform QUARK ATOM technicians  20. Remanence QUARK  21. a. Preon ***motif*** QUARK JEHTOH Echnicians  22. Mole QUARK JEHTOH BOSON technicians  23. Elementary Particle QUARK JEHTOH   24. Bring the Conductivity QUARK JEHTOH BOSON ATOM   26. Hadron QUARK JEHTOH BOSON ATOM   27. Fusion QUARK BOSON technicians  28. Synchrotron QUARK BOSON technicians  29. Hypercharge QUARK JEHTOH BOSON technicians	4.	Torsion	QUARK ЛЕПТОН
7. Nuclide QUARK BOSON ATOM  8. Entanglement QUARK BOSON  9. Crossing Field Lines QUARK BOSON research assistants  10. Centration QUARK BOSON research assistants  11. G QUARK JENTOH ATOM professors  12. Anyon QUARK  13. Valence QUARK JENTOH ATOM students  14. Bffusion QUARK  15.a. Super Collide QUARK JENTOH technicians  16. Particulate QUARK BOSON ATOM politicians technicians  18. Backscattel QUARK JENTOH  19. Electroform QUARK JENTOH  20. Remanence QUARK  21.a. Preon ***motif*** QUARK JENTOH BOSON technicians  22. Mole QUARK JENTOH BOSON ATOM Politicians   23. Elementary Particle QUARK JENTOH BOSON ATOM   24. Bring the Conductivity QUARK JENTOH BOSON ATOM   25. Mass Charge Spin QUARK JENTOH BOSON ATOM technicians  26. Hadron QUARK JENTOH BOSON ATOM   27. Fusion QUARK BOSON ATOM   28. Synchrotron QUARK BOSON technicians  29. Hypercharge QUARK JENTOH ATOM technicians  20. Isospin QUARK JENTOH BOSON ATOM	5.	Available Energy	QUARK
QUARK BOSON  Crossing Field Lines QUARK BOSON Centration QUARK BOSON research assistants  QUARK BOSON research assistants  QUARK JEHTOH ATOM professors  L2. Anyon QUARK  QUARK JEHTOH ATOM students  L3. Valence QUARK JEHTOH ATOM students  L4. Effusion QUARK  L5.a. Super Collide QUARK JEHTOH technicians  L6. Particulate QUARK JEHTOH  L7.a. Slepton QUARK BOSON ATOM politicians technicians  L8. Backscatter QUARK JEHTOH  L9. Electroform QUARK JEHTOH  L9. Electroform QUARK JEHTOH  L9. Remanence QUARK  L1.a. Preon ***motif*** QUARK JEHTOH BOSON technicians  L2. Mole QUARK JEHTOH BOSON technicians  L3. Elementary Particle QUARK JEHTOH  L4. Bring the Conductivity QUARK JEHTOH BOSON ATOM   L5. Mass Charge Spin QUARK JEHTOH BOSON ATOM   L6. Hadron QUARK BOSON ATOM   L7. Fusion QUARK BOSON ATOM   L8. Synchrotron QUARK BOSON ATOM   QUARK JEHTOH BOSON ATOM   QUARK JEHTOH ATOM technicians  QUARK JEHTOH BOSON ATOM	6.a.	Tachyon	QUARK BOSON ATOM JENTOH students
QUARK BOSON research assistants QUARK DENTOH ATOM professors QUARK JEINTOH ATOM students QUARK JEINTOH ATOM students QUARK JEINTOH ATOM students QUARK JEINTOH technicians QUARK JEINTOH technicians QUARK JEINTOH QUARC QUARK Q	7.	Nuclide	QUARK BOSON ATOM
QUARK BOSON research assistants QUARK JENTOH ATOM professors QUARK Anyon QUARK QUARK QUARK JENTOH ATOM students QUARK QUARK QUARK GEfusion QUARK QUARK JENTOH technicians QUARK JENTOH technicians QUARK JENTOH technicians QUARK JENTOH QUARK	8.	Entanglement	QUARK BOSON
QUARK   JEHTOH   ATOM   professors  12. Anyon QUARK  3. Valence QUARK   JEHTOH   ATOM   students  14. Effusion QUARK  15.a. Super Collide QUARK   JEHTOH   technicians  16. Particulate QUARK   JEHTOH   technicians  17.a. Slepton QUARK   JEHTOH  19. Electroform QUARK   JEHTOH  20. Remanence QUARK  21.a. Preon ***motif*** QUARK   JEHTOH   BOSON   technicians  22. Mole QUARK   JEHTOH  24. Bring the Conductivity QUARK   JEHTOH   BOSON   ATOM   technicians  26. Hadron QUARK   JEHTOH   BOSON   ATOM   technicians  27. Fusion QUARK   JEHTOH   BOSON   ATOM   technicians  29. Hypercharge QUARK   JEHTOH   BOSON   ATOM   technicians  29. Hypercharge QUARK   JEHTOH   BOSON   ATOM   technicians  QUARK   JEHTOH   BOSON   ATOM   technicians  QUARK   JEHTOH   BOSON   ATOM   technicians  QUARK   JEHTOH   BOSON   ATOM   TECHNICIANS  QUARK   JEHTOH   TECHNICIANS  QUARK   JEHTOH   TECHNICIANS  QUARK   JEHTOH   TECHNICIA	9.	Crossing Field Lines	QUARK BOSON
Anyon QUARK    QUARK   JIEIITOH   ATOM   Students     QUARK   JIEIITOH   ATOM   Students     QUARK   JIEIITOH   Lechnicians     QUARK   JIEIITOH   Lechnicians     QUARK   JIEIITOH   Lechnicians     QUARK   JIEIITOH   Lechnicians     QUARK   JIEIITOH     QUARK     QUARK	10.	Centration	QUARK BOSON research assistants
QUARK JEHTOH ATOM students  QUARK  Effusion QUARK  QUARK JEHTOH technicians  QUARK JEHTOH technicians  QUARK JEHTOH technicians  QUARK JEHTOH  QUARK JEHTOH BOSON technicians  QUARK JEHTOH BOSON ATOM	11.	G	QUARK ЛЕПТОН ATOM professors
QUARK   JETTOH   Technicians    14. Effusion QUARK   JETTOH   Technicians    16. Particulate QUARK   JETTOH   Technicians    17.a. Slepton QUARK   JETTOH    18. Backscatter QUARK   JETTOH    19. Electroform QUARK   ATOM   Technicians    20. Remanence QUARK    21.a. Preon ***motif*** QUARK   JETTOH   BOSON   Technicians    22. Mole QUARK   JETTOH   BOSON   Technicians    23. Elementary Particle QUARK   JETTOH   BOSON   ATOM    24. Bring the Conductivity QUARK   JETTOH   BOSON   ATOM    26. Hadron QUARK   JETTOH   BOSON   ATOM    27. Fusion QUARK   BOSON   ATOM    28. Synchrotron QUARK   JETTOH   ATOM   Technicians    29. Hypercharge QUARK   JETTOH   BOSON   ATOM    29. Hypercharge QUARK   JETTOH   BOSON   ATOM    20. Isospin QUARK   JETTOH   BOSON   ATOM    21. Isospin QUARK   JETTOH   BOSON   ATOM    22. MOLE QUARK   JETTOH   BOSON   ATOM    23. Isospin QUARK   JETTOH   BOSON   ATOM    24. Isospin QUARK   JETTOH   BOSON   ATOM    25. MASS Charge Spin QUARK   JETTOH   BOSON   ATOM    26. Isospin QUARK   JETTOH   BOSON   ATOM    27. Isospin QUARK   JETTOH   BOSON   ATOM    28. QUARK   JETTOH   BOSON   ATOM    29. QUARK   JETTOH   BOSON   ATOM    29. QUARK   JETTOH   BOSON   ATOM    20. QUARK   JETTOH   BOSON   ATOM    20. QUARK   JETTOH   BOSON   ATOM	12.	Anyon	QUARK
QUARK JENTOH technicians  16. Particulate QUARK JENTOH DOINTICIANS TECHNICIANS  17.a. Slepton QUARK JENTOH BOSON TECHNICIANS QUARK JENTOH BOSON TECHNICIANS QUARK JENTOH BOSON ATOM QUARK JENTOH ATOM Technicians QUARK JENTOH ATOM Technicians QUARK JENTOH ATOM Technicians QUARK JENTOH BOSON ATOM  QUARK JENTOH BOSON ATOM	13.	Valence	QUARK ЛЕПТОН ATOM students
QUARK ATOM QUARK BOSON ATOM politicians technicians  Backscatter QUARK JEHTOH QUARK ATOM technicians QUARK ATOM technicians QUARK ATOM technicians QUARK ATOM technicians QUARK QUARK ATOM technicians QUARK ATOM  QUARK JEHTOH  QUARK JEHTOH BOSON technicians QUARK ATOM QUARK JEHTOH QUARK JEHTOH  QUARK JEHTOH QUARK JEHTOH  QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK JEHTOH QUARK QUARK DOSON ATOM QUARK QUARK DOSON ATOM QUARK JEHTOH ATOM technicians QUARK JEHTOH ATOM technicians QUARK JEHTOH ATOM technicians QUARK JEHTOH BOSON ATOM QUARK JEHTOH BOSON ATOM	14.	Effusion	QUARK
QUARK   BOSON   ATOM   politicians   technicians    18. Backscatter	<mark>15.a.</mark>	Super Collide	QUARK ЛЕПТОН technicians
QUARK   JIEHTOH   BOSON   technicians  QUARK   JIEHTOH   BOSON   ATOM    QUARK   JIEHTOH   ATOM   Technicians  QUARK   JIEHTOH   BOSON   ATOM    QUARK   JIEHTOH   ATOM   Technicians  QUARK   JIEHTOH   BOSON   ATOM    QUARK   JIEHTOH   BOSON    QUARK   JIEHTOH    QUARK    QUARK   JIEHTOH    QUARK    QUARK	16.	Particulate	QUARK ATOM
QUARK   ATOM   technicians  QUARK   ATOM   technicians  QUARK   QUARK	17.a.	Slepton	QUARK BOSON ATOM politicians technicians
QUARK   JENTOH   BOSON   Technicians   Quark   JENTOH   BOSON   Technicians   Quark   JENTOH   BOSON   Technicians   Quark   JENTOH   BOSON   Technicians   Quark   JENTOH   BOSON   ATOM   Quark   JENTOH   BOSON   ATOM   Quark   JENTOH   BOSON   ATOM   Quark   BOSON   ATOM   Quark   BOSON   ATOM   Quark   BOSON   Technicians   Quark   BOSON   Technicians   Quark   BOSON   Technicians   Quark   JENTOH   BOSON   Technicians   Quark   JENTOH   BOSON   Technicians   Quark   JENTOH   ATOM   Technicians   Quark   JENTOH   BOSON   ATOM	18.	Backscatter	QUARK ЛЕПТОН
QUARK   JEHTOH   QUARK   JEHTOH   QUARK   JEHTOH   BOSON   technicians   QUARK   JEHTOH   BOSON   technicians   QUARK   JEHTOH   BOSON   ATOM   QUARK   JEHTOH   BOSON   ATOM   QUARK   JEHTOH   BOSON   ATOM   QUARK   JEHTOH   BOSON   ATOM   QUARK   BOSON   ATOM   QUARK   BOSON   ATOM   QUARK   BOSON   ATOM   QUARK   BOSON   Technicians   QUARK   BOSON   Technicians   QUARK   JEHTOH   ATOM   Technicians   QUARK   JEHTOH   ATOM   Technicians   QUARK   JEHTOH   ATOM   Technicians   QUARK   JEHTOH   BOSON   ATOM	19.	Electroform	QUARK ATOM technicians
QUARK   JETTOH   BOSON   technicians  QUARK   JETTOH   BOSON   technicians  QUARK   JETTOH   BOSON   Technicians  QUARK   JETTOH   BOSON   ATOM  QUARK   JETTOH   BOSON   ATOM   Technicians  QUARK   BOSON   ATOM    QUARK   BOSON   ATOM    QUARK   BOSON   Technicians  QUARK   JETTOH   ATOM   Technicians  QUARK   JETTOH   BOSON   ATOM	20.	Remanence	QUARK
Elementary Particle  QUARK   ATOM  QUARK   JEHTOH  QUARK   JEHTOH   BOSON   ATOM  QUARK   JEHTOH   BOSON   ATOM   Technicians  QUARK   BOSON   ATOM   Technicians  QUARK   BOSON   ATOM   Technicians  QUARK   BOSON   Technicians  QUARK   JEHTOH   ATOM   Technicians  QUARK   JEHTOH   ATOM   Technicians  QUARK   JEHTOH   ATOM   Technicians  QUARK   JEHTOH   ATOM   Technicians  QUARK   JEHTOH   BOSON   ATOM	21.a.	Preon ***motif***	QUARK ЛЕПТОН
Paring the Conductivity  QUARK   JEΠΤΟΗ  QUARK   JEΠΤΟΗ   BOSON   ATOM  QUARK   JEΠΤΟΗ   BOSON   ATOM   technicians  QUARK   BOSON   ATOM    QUARK   BOSON   ATOM    QUARK   BOSON   Technicians  QUARK   JEΠΤΟΗ   ATOM   Technicians  QUARK   JEΠΤΟΗ   ATOM   Technicians  QUARK   JEΠΤΟΗ   ATOM   Technicians  QUARK   JEΠΤΟΗ   BOSON   ATOM    QUARK   JEΠΤΟΗ   BOSON   ATOM    QUARK   JEΠΤΟΗ   BOSON   ATOM	22.	Mole	QUARK ЛЕПТОН BOSON technicians
QUARK JENTOH BOSON ATOM  QUARK JENTOH BOSON ATOM technicians  QUARK JENTOH BOSON ATOM technicians  QUARK BOSON ATOM  QUARK BOSON ATOM  QUARK BOSON technicians  QUARK JENTOH ATOM technicians  QUARK JENTOH ATOM technicians  QUARK JENTOH BOSON ATOM	23.	Elementary Particle	QUARK ATOM
QUARK JENTOH BOSON ATOM technicians QUARK BOSON ATOM QUARK BOSON ATOM QUARK BOSON technicians QUARK JENTOH ATOM technicians QUARK JENTOH ATOM technicians QUARK JENTOH BOSON ATOM	24.	Bring the Conductivity	QUARK ЛЕПТОН
QUARK BOSON ATOM  28. Synchrotron QUARK BOSON technicians  29. Hypercharge QUARK JEПТОН ATOM technicians  30. Isospin QUARK JEПТОН BOSON ATOM	25.	Mass Charge Spin	QUARK   ЛЕПТОН   BOSON   ATOM
QUARK BOSON technicians  QUARK JEΠΤΟΗ ATOM technicians  QUARK JEΠΤΟΗ BOSON ATOM	26.	Hadron	QUARK ЛЕПТОН BOSON ATOM technicians
29. Hypercharge QUARK   ЛЕПТОН   ATOM   technicians 30. Isospin QUARK   ЛЕПТОН   BOSON   ATOM	27.	Fusion	QUARK   BOSON   ATOM
30. Isospin QUARK ЛЕПТОН BOSON ATOM	28.	Synchrotron	QUARK BOSON technicians
<del>-</del>	29.	Hypercharge	QUARK ЛЕПТОН ATOM technicians
31. Subatomic QUARK ATOM technicians	30.	Isospin	QUARK   ЛЕПТОН   BOSON   ATOM
	31.	Subatomic	QUARK ATOM technicians





# MUSICAL NUMBERS (cont.)

J3 #	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	QUARK ЛЕПТОН АТОМ
40.	Decay	QUARK ЛЕПТОН BOSON ATOM particles
41.	Supersymmetry	QUARK ЛЕПТОН BOSON ATOM particles
42.	Knot (bow)	COMPANY



### HUMILITY

A droplet impacts another. The first thing I see, waking up in an empty bus. Well, the dark half of it. The schoolchildren don't seem to see what the bright-less one sees. Maybe I'm just imagining. I'm not really alone. Our schoolteacher sits beside me. Though, she hasn't uttered a word. Rather than grow up to be bright and empty as my comrades, I see myself in Taý-лепто́н: dark and empty. Unlike that storm, that died out hours ago. I'm relying on its wholesome droplet to not evaporate anytime soon.

The bus abruptly ends its journey. A suited man opens the hatch and enters. It is MmoH, who spoke to us in our kindergarten assembly and had arranged this field trip.

"Добро пожаловать в Циклотрон..." he says. He trails off.

I look back at the window. Where did she go? Where did he go? Where did they run off to? They were so young. They shared a story. Droplets pour out of my eyes and yet, it won't make up for it.

Мюон ends his spiel. I blindly look around. I don't know how long Taý-лепто́н has been hugging me.

"Particles are not for everyone. Тау́-лепто́н, you've gotten tours at the cyclotron," Мюон kindly gestures. He exits the bus. My comrades rush off to join him. Электрон, our driver, tiptoes off.

Really, how long has Taý-лепто́н been holding me hostage? I finally push away from her. Just got to wipe my eyes should be an adequate excuse.

"Tears gone," I hectically cry. I hope she understands. This barren figure obviously does. Ταύ-πεπτοή places her finger on an arrogant teardrop, protruding on my cheek. She takes them onto her fingertips. Opening our window, she snaps them away. Quickly, she is in the aisle and motions for me to join her. This is the most excited I've seen her, so I'm taking this chance. I stand by her. I look out in the tundra.

The humidity. I feel them emit... Such humility... I sense their spirits.

I still have a role to play as a schoolchild, so I'm just going to naturally skip my way to the cyclotron...  $Ta\acute{y}$ -лепто $\acute{h}$  took in some matter for me. I'll do the same for her.



### INVISIBLE COMRADES

"You came just in time to see the firework show," Мюон tells Тау-лептон and I as we enter the control room.

My comrades gather around him. They are really into this printer?

"Yeah, we have all the time. You wouldn't have seen the initial beam being fired off anyways." He implies. He hits the machine. He grows impatient.

"You want to see a real firework show, there are rockets set for launch in the propulsion lab right next door! Like actually see anything." Электрон enters from nowhere.

"Their apparatuses are just as faulty!" Mmon implores.

"Accidents are cool to watch!" A schoolchild hollers.

"Hot!" Another schoolchild corrects.

My comrades head to the sights with Электрон. Тау-лептон comforts Мюон.

"Particle physics is young." He sinks. "And short-lived." Taý-лепто $\acute{\text{h}}$  motions her head towards me.

I hear him mumbling that particles are not for me. Still,  $Taý-\pi e\pi \tau o\acute{\mu}$  got to him.

Mюон heads to the operator's control. He mashes several buttons on the analogue computer. I look through the window. There's a tube that spirals around the hallway.

"There's nothing to see through the window." Moon sighs.

I place my entire face and hands on the window. It wiggles, as though a thousand bugs are lifting me. Perhaps, a trillion molecules. No, countless atoms.

I see in the reflection Мюон pacing away. He disappointedly extends his arms to Тау́-лепто́н. I also see that the printer has entered the light. I don't know how long Тау́-лепто́н has been embracing Мюон for. He weeps, like a schoolchild.

What follows are the sounds of shooting stars. The images of fireworks stack on the floor. There is an odor enriched with ink. For a lifetime, this data feeds my soul. I'm touched.

Particles are not for Лептон. Лептон is for particles.

