

NEUTRON THE MASTERMIND OF ATOM

A Journey Into an Atom

Ahmad Hemmati



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the
Mastermind of Atom

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Foreword

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"Science is nothing more than thinking and imagination in existing facts"

The book, in the form of a sci-fi story, tries to focus the reader on the intellectual challenge about the smallest truth in the world, the atom. The story, in the mentioned form and with positive assumptions, describes a solution to the dark points of the science of physics (the theory of everything). The storyline is ascending, so requested to carefully follow the story's events to better understand the concepts of the story.

Since no book or manuscript isn't without flaws, any mistakes in the syntax, form and text of the book will be corrected with reminders of respected readers.

July 2019

MONDAY 2

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DECEMBER 4

Nearly the last piece of the Neutron Ship is ready to be installed. It will be exciting days. The result of about a century of intense scientific progress to this day, which we will see as the greatest event of history. All the unanswered questions of our physical world will reveal their secret. I hope all things will go according to plan.

2 TUESDAY
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4 DECEMBER

The Neutron Ship was completed. With all the difficult, the technical team installed the last piece. Professor Quark has an unbeatable thrill. The stress of the teams is such that we had to shut down the work for rest and relaxation. But the software control group is still in control of the work process.

WEDNESDAY 2
13 0
DECEMBER 3 4

8 am. All members of the team have come to the job with high energy. Today, for the last time, the entire hardware and software process of the ship will be controlled and reviewed.

2 pm. There's a lot of noise in the launcher hall. I looked out of my office window. The voice of Professor Quark: "It's not possible." I moved quickly to the hall. Engineers of this department had realized that the energy needed to launch was not yet sufficiently integrated in the system and the launching process might be disrupted. Work for an indefinite period to resolve the problem should be closed. And this was the reason why the professor was very upset.

2 SATURDAY
0
3 16
4 DECEMBER

The last three days of our efforts were fruitless, but the launching technical team is working hard. The professor does not have the passion and enthusiasm of the last few days. Meanwhile, the opportunity to rest for all project members seems me to be one of the positive aspects of the problem. Because, the teams really worked in these two years, with all energy and all day and night.

22:22. An idea came to my mind. The subject was: We designed the ship in such a way that it could work with 75% of the power of the energy source. 25% is considered as a backup energy and this is a problem solution. Firstly, this launcher is the 1st launch for the ship, and secondly, the energy system is currently suppling up to 80% and we can solve the problem again in the next launches. I raised the subject quickly with the professor.

Professor was a bit skeptical, after hearing my arguments, despite that he opposed such things. Because he is a perfectionist and believes that things must be done perfectly and without defect.

Our discussion did not last long and ended with the opposition of the professor. At the end I just said a sentence, and goodbye. "The value of our work is comparable only with power of doing it."

SUNDAY 2
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DECEMBER

I had a boring morning. I saw ship's dream in the whole night. I had fallen asleep until 10 am. I wasn't in the mood. Until two hours later, my dreams came to my mind, and I constantly thought of the problem and the solution to solve it, so that we might be able to launch it sooner. All my mind was involved. Because I knew the professor would not allow to launching as long as the energy did not reach 100%.

3 was afternoon. Suddenly, the profile of the professor appeared next to the wall. was in calling with me. I answered quickly. The professor said: come in lab as soon as possible. only this. And then the end of the call.

Thousand thought came to my mind. Problem fixed? Something new happened?

Once I arrived at the lab, I realized that a good event would be coming down. All project members were present and their excitement and dynamism were quite evident (Apparently, I was the last one I had been aware of that).

I quickly went to the office of the professor but he was not there. The professor's secretary said: he had gone to the launch pad.

On the way, I heard the voice of the professor who was talking loudly with the launch team. From far, I salute.

Professor, upon seeing me, said with a smiling face: "The value of our work is comparable only with power of doing it." I smiled, and without any additional words I asked with pride: when?

The professor answered: "Tomorrow!"

2 MONDAY
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4 DECEMBER

Appointed Day. Stress! ... excitement! ... a little luck! ...

6 am. Workplace! But apparently again, I'm late. The launch program is 7:33 am. The professor suddenly appeared in front of me with red eyes. Hello. Sleep a little longer! Although I was embarrassed, I smiled, but without letting to me to start talking, the professor continued, "Go to the control room quickly, I'll join you in a few minutes."

7:10 am. Safety warnings are broadcast from the speakers of the lab. All doors are locking. Project members are being driven to a safe place, and only those inside the control room are in the lab.

The professor instructed to inject energy and start the system.

7:32. The timer started counting down. 59 and 58 and 3, 2, and 1 and

We wait with bated breath! Confused! A few moments passed. Nothing happened. Everyone was disappointed! Hopeless! And I'm ashamed and embarrassed!

Everywhere it was white, a strange sound was buzzing in my ear, I could not see anyone, nor did I hear a voice. Oh my god, I'm dead or alive! Suddenly, I felt a shake in myself. It's as if I be unconscious and one is shaking me? But ... wait ... no! I absolutely feel everything.

Suddenly, a strong slap hit my mask glass. Professor's hand! And suddenly Professor himself!

He approached me in a halo of light and hugged me deeply. I heard sounds now.

Cheering Crying Smile And the voice of the professor Congratulations to the hero, Congratulations.

The professor was close to my face and I could see him completely. As soon as the professor separated from me. Wow

Is it sleeping? Am I dead? I would not believe it! I was speechless and my heart beat was getting faster. It is not possible!

Astonished, I was freeze up for a moment. Suddenly, I screamed and jumped. Hurrah hurrah hurrah thanks god thanks god.

A magnificent and lasting moment! We did it.

The professor approached me again and took my hand. Amazing and incredible world. The professor said yes, we did it and now our work have value. The professor ordered the end, and a moment later everything went back to normal. I did not like to get out of this dream, but what can I do, while I can't control it

With a complete confusion (after the success of the first experiment), I asked the professor what exactly happened.

The professor replied with a ridiculous but friendly smile: "Nothing!" Just because of the too excitement before testing, you had forgotten to turn on your clothing switch button, so the system was not working.

With shame, I bowed my head and whispered: That was why the headphones and glasses did not work, and then I laughed.

TUESDAY 2
19 0
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DECEMBER

From the intensity of excitement and curiosity, I did not fall asleep all night long, I thought at every moment to what I had seen. It was really amazing. But why was short? The professor responded, but my curiosity prevented me from accepting the professor's arguments. And a bad feeling. Like a child who, before cutting his birthday cake, can't open his gifts, and sees only his gift wrap. I was in a struggle with myself.

It was a test, a mere experiment. A test for test the ability to do work. To understand whether the system works or not. A pre-launch, not the main launch. Check processes and fix possible bugs. Testing for a perfect start. An unknown world for the first time, we have no science of what happened, so we can't take risks.

These were the arguments of the professor, and I was reviewing all of them in my mind whole of night. I did not have any mindset of what I had seen, and that was annoying me. Like a blind man who opens his eyes. Certainly, he will see an unknown and strange world that has never imagined it.

At 5 o'clock in the morning and I'm still thinking. At 7 o'clock I should be in the lab. I slept a moment. I reached there with anyway possible. 7:04.

The day of data analysis and rebuilding the correctness of the steps performance of the processes of the system and reviewing the recorded images. The day will be tough. The entire teams should gather in the laboratory and report their analysis for the final conclusion, but this may take several days. Until this step isn't complete, the professor will not allow restarting the system. Reports are visible only to members of the team, due to the lack of a bias in data analysis, until the moment of final presentation.

THURSDAY 2
21 0
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DECEMBER

2 days past and only 4 teams are ready. The reports will be heavy and very complicated because the Neutron Ship is in fact a highly advanced and complex system that can create a three-dimensional, interactive, and tactile space at a radius of 10^{20} times the internal radius of an atom from inside of it.

The idea of this system was formed about 10 years ago by the professor, and the reason for naming this system in the name of the ship was because of the fact that it was possible to travel in an inverted stream to an atom, and in principle, the system has the ability to simulate a very accurate and instantaneous from an atom, in a space with 15 meters radius. This process was implemented and controlled by NBQ (Neutron - Boson Quantum) microscopes (a new method developed by Professor in 2029).

22:30. End of workday and again nothing.

The professor is anxious, but with curiosity is waiting the final results. "Today ended and re-awaited". and I confirmed it with my head. He continued again, "I hope we have good news tomorrow.", " Be quick, I'll drive you home." But I said: "No, I want to walk. This last few days have been full of stress. I want to relax my mind." and then I said: goodbye.

I lied. But I had a plan. Curiosity and confusion drive me crazy. I could not wait any more. As an assistant professor, I had access to all the laboratory and system accesses, and its spice was just an evil thought. I came to my room. In the darkness of the room, I'm waiting for the laboratory to shut down. I will review all the processes and things that I must do.

2 FRIDAY
0 22
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4 DECEMBER

00:42 morning. By calling the virtual assistant and with a small manipulation, I temporarily disabled the security system of Inside the hall and the lab. I went to the control room and put the ship to the launch in the ready mode. On the first launch, experiments were performed on deuterium, and fortunately the deuterium chamber was still inside the ship.

I wore the protective clothing quickly and this time I did not forget the start button of the dress. :)

Start of launch. The lab is being to isolate. Everything is going well.

3 2 1 Wow Thanks god! Hurrah (but calmer) I controlled my thrill. (I have to examine everything carefully so that there is no question remain in my mind, since it was perhaps the first and last chance for me. I had already thought about its consequences, and I was ready for any event.)

Wow I was the first person to enter this space. Everything was unfamiliar to me. Another world maybe, or maybe not! Or maybe familiar, with more precision. I would like to express what I have seen, without any excitement and exaggeration.

Like brilliant balls similar to the sun but quite different. Yes, these were single atoms of Deuterium. I ordered the scrolling and magnifying command. I wanted to enter one of the atoms. As I came closer to the edge of the ball, I felt a strange force on my body (the feeling of pressure). The speed and intensity of the light of this ball was very high, so I enabled the light filter and system power alignment option. Suddenly everything became static and apparent. I looked around! Odd balls, as if each were filled with a jelly-like transparent material, and inside them there is a loop-like empty space, which apparently emits these translucent materials inside them.

Perhaps the closest likeness, like ice balls, in which a small bubble of air enters it. Despite the alignment of the system with the atom, the atomic nucleus was still not visible from this distance, and I had to do more scrolling toward it.

I slowly entered this transparent substance, I felt twice as much pressure on my body. I ordered the survey of this material to the artificial intelligence of system, but did not announce any response. "Unknown". I sampled different parts of this material, but still: "Anonymous".

I moved to the loop. I could hardly go to it, because it was like a spring that was erupting this material (had a higher density). The equilibrium in the interior space of the atom, was much greater than the proximity of this cavity.

Eventually I reached to this cavity. The alignment system made everything static and there was no movement. I slowed down the power of the system to see exactly what happened. Yes, this hole has a strange feature. The cavity was completely like an empty loop, but with the difference that behind the loop was the same space inside the atom, and apparently only had one side, and the material was erupting from the same side (It seems to be connected to another world or dimension). The loop was moving in the opposite direction of the eruption, and as if the eruption caused it to move forward, but with a big difference, it spins around a nucleus in a nearly circular path. The reason for this was the angle of about 73 degrees of the loop relative to the supposed tangent line on the hypothetical circle in the lower region of the loop. The next interesting thing was the lack of moving the loop around itself. A roughly constant motion on a specific path. The reason for the curvature of this loop was somewhat clear, and that was due to the force that entered at any moment to the center of the atom, that is, a force from the outside to the inside, which seems to pull the material to itself (a tangible force whose source was still unclear to me).

To understand this, consider a cube that is in zero-gravity and in a state of equilibrium and static. If two forces enter it, one of them from the left of the cube and the other (weaker) from the lower right side (downward), this cube will move in a circular path. Similarly, in the case of the loop, the force downwards, is the same downward mysterious force (towards the core) that causes the loop to bend.

I ordered the survey to the virtual assistant. Artificial Intelligence announced after minutes: "Electron". shocked! I gave the same command again. "electron". The system output only showed this title and provided information about the electron and the process of the conclusion.

Deeply I fell into thought. I did not have any mental assumptions about what I saw, because it was conflict with scientific content I knew about the atom. By looking more deeply at the information provided by artificial Intelligence, the exact reasoning and similarities that exist with the information about the atom, became apparent to me. The greatest point that artificial intelligence has discovered was the amount of material eruption of this loop, which is equal to the charge of an electron.

With an anxious and curious mind, I moved to the atomic nucleus (with a little excitement and concern). As I said before, the balance was much greater in the middle of the atom, but as I moved towards the core, more force came from behind me (as if you were in a slide), and somehow, I was absorbed to the core.

I raised the power of the system again for alignment, but unfortunately the system used its maximum power and I could not take risk anymore. I came to the nearest point of the atomic core with full stress. The system was warning alert, and warned of the instability of the ship, because it was on the verge of full use of 80 percent of the total power of the energy source. (75% of the power of the energy source and 5% of the backup energy, which was almost the total energy supplied to the system until that moment).

There was a magnificent scene in front of me. It was amazing. While there was nothing for direct observation, it was quite understandable that the material would enter a loop similar to the electron loop, and only of the accumulation of these materials and how they were moving, could be detected the loop.

Interestingly thing was that this loop also single-sided, which like a magician hat, disappeared anything that went into it. This loop was also not fixed and was moving in a limited space; however, it did not spin around itself, but always upward and towards the middle atmosphere of the atom, and behind it was always downward to the center of the nucleus. (This was due to the fact that the amount of material in the middle region was higher and this loop to absorb them should always be placed towards them, and the reason for not moving the loop towards them was the presence of high-down force, which caused this loop could be located at the bottom and only stay towards to them).

There was a strange angular movement (like a cradle motion with a degree of freedom in different directions). The example of it, is like this: Put a vacuum cleaner in a closing space, without gravity, and with a low material density. After turning it on, the vacuum cleaner tube will move to any place that can absorb the existing material.

But with the difference that the movement of this loop was not messy and complicated, and it was due to the existence of another loop that was very strange and complex. A loop that had another loop inside it.

Artificial intelligence, with the investigations that it did, declared the name of the loop which the material entered into it, "Proton". What I have guessed it. Again, the basic point was the amount of input material, which was equal to the charge of the proton.

For a strange loop, artificial intelligence did not give a definitive name, and only displayed: "I guess it's a Neutron". This answer was the only possible answer, since deuterium only contains an electron, a proton and a neutron. The interesting thing about the neutron was that material came out of the inner loop (like an electrons), but the outer loop swallowed the material into itself (like the proton). More interesting was the amount of input and output materials, the difference being equal to zero, but in no way the output materials weren't swallowed again at the same time, but the materials, from the middle space entered it.

My stupid curiosity caused me a big trouble. Considering the direction of moving the material into the proton, and with assuming that no additional load will be entered into the system, I moved to the space inside the proton, but suddenly virtual assistant with a strong warning turned off the whole system, and everything was over. My sweet dream ended and was destroyed in a moment.

Thousand curses to my timeless ambitions and my foolishness. While I was in a deep regret and confused, about what had happened, suddenly the system was turned on. The system was reloading and recharging the energy source.

An unbeatable joy overwhelmed me. After about 40 minutes, the yellow notification was displayed by the system. "Unfortunately, the source of power is defective and can't charge more than 70 percent!". Again, stress and a pity! And this time I really could not take risk anymore. But again, too much curiosity and evil thoughts forced me to do another stupid thing.

And this time I was able to overcome it somewhat. It was more than 3 hours past and now I did not have enough time for no extra work.

Quickly, I ready the system to launch, with the difference that this time I entrusted all the tasks into virtual assistant and artificial intelligence and deactivated the online simulation section to prevent damage to the ship. The professor had designed many experiments, and the necessary materials and processes had already been loaded into the system, and the only task was order to do the experiments. Although I was deprived of direct observation and interaction in these processes, but I could see the results instantaneously.

4:11 in the morning and I only had another 2 hours. The launch of the ship was carried out, and artificial intelligence was conducting experiments and analyzing the results. The output of the experiments was as follows:

Electromagnetic Spectrum Tests:

Electromagnetic radiation from radio radiation to gamma radiation is of the same nature. When the amount of the intermediate material of an atom increases by any outside factor (electron, chemical bond, chemical reaction, etc.) from a certain amount that is out of atomic control, the atom begins to irradiate. These radiations vary according to the atomic feature and the amount of input material, which results in the formation of an electromagnetic spectrum.

Each atom has a certain amount of material, which the electrons, protons and neutrons, are responsible for the stability and constancy of the material inside the atom. Neutrons, as the mastermind of the atom, also has a greater duty. Neutrons, according to their nature, are responsible for regulating the amount of material in the atomic nucleus to balance the protons and prevent their repel by each other and nuclear decay. Protons are capable of absorbing materials to a certain amount and evenly in all their directions, and this ability makes them margin of safety, but if the material are low, the two protons in a competition to absorb them are getting closer to each other border; in this case, the influx of a large amount of material into the boundary point, due to the doubling of the absorption force at that point, causes that the protons get away from each other.

Arrangement this amount of material between the protons to maintain the balance between them

is the responsibility of the neutrons, which they do this by entering and exiting the material at any moment. Interestingly, the numerical entry and exit rates are not constant and maybe vary with respect to the atomic conditions, but in each case, the difference is always zero.

Radiations are all in the form of material exits from the middle of the atom in regular packages, which the amount of each package is always the same (for the entire length of the spectrum), and the only difference is the time it takes to exit. Lower end of the spectrum (radio radiation) are slowly and during more time separated from the atom and stretched like spaghetti strings. This is while all of these strings are separated from the atom at a constant frequency. The more we go to the top of the spectrum (gamma radiation), the packets (in terms of size) are shorter and their exit times are reduced, that is, at a higher speed and smaller size (like rice grains), but, as we said, they are still separated from the atom by the constant amount of material inside each packet and constant frequency.

Experiments on magnetic and electric field:

The electric field appears in atoms, which have free electrons. The passage of electrons from the outer part of the atom causes the amount of material around the atom to be increased, and since the atom can only manage a certain amount of materials (radiation, absorption, etc.), this additional materials, on the one hand, due to the downward movement (pulling towards the core), and, on the other hand, lack of sufficient space inside the core, remain in the vicinity of the atom. (In a special arrangement according to the direction of the passage of the electrons).

The presence of large amount of these materials (due to the passage of the electrons), around a large number of atoms (for example, a wire), which each of atoms has this property, create an atmosphere around the outer part of these atoms (wire), that is full of these materials, but this space is not stable, and ultimately, by stopping the passage of electrons, again the atoms are managed these materials, and this space disappears.

The magnetic field acts like an electric field, but with the difference that in this field the electrons are arranged in such a way that the output material from the electrons not only accumulated in the outer space of the atom, but also moves in a certain direction. Also, in this case, the downward movement (pulling towards the core), causes these materials after bypass of the atoms, return again to the inside of atoms from the rear.

This internal movement of material and the existence of the flow toward the core (downward movement) causes that the material in the outer space of the atom moves in opposition to the direction of the internal movement, and in the opposite direction of exiting of the materials from the atoms, and in a place where their amount is lower, enter to the atoms again, because they amount are larger at the exit point, and this process causes the flow and creation an atmosphere around the atoms.

It is quite natural, as two electrons can't close together because of the exit of the material and, if approached, repel each other, or protons due to the stretching of the material. Conversely, electrons and protons absorb each other. This property about electric field, and especially the magnetic field, also is quite the same, but in this case, this is determined by the direction of the flow.

Gravity experiments:

The gravity is not what we imagined, in fact, the gravity is result of the magnetic field and the collective ability of protons to absorb material around atoms. But with the difference that the material around the atom by the presence of the internal movement of material in atoms, is repelled, and forced to move opposite direction and entrance from the opposite direction of the internal movement the atom. while, the thirst for absorption by protons and the complete management of the material by the atom at any moment and every point of the atmosphere around the atom, there remains (something that internal movement prevents it). For example, a free and neutral atom in a magnetic field due to the existence of a balance inside itself, regardless of the flow around and inside the field, only and only by applying a weaker force because of that same thirst for protons, on materials inside the free atom, causes to move towards themselves.

Additional Tests and Forecasts:

There are two different modes for exposure to electromagnetic radiation with atoms. The first mode that radiation perpendicularly to the supposed spherical surface of the atom entranced, which after it enters the interior of the atom or is absorbed, or at the same frequency or at a different frequency reflects from the atom.

The second mode that the radiation passes tangential to the supposed spherical surface of the atom. In this case, due to the nature of these radiation, the downward flow (pulling towards the core) affects them, but because their motion vector is perpendicular to the vector of motion to the nucleus, it only causes the curvature in the vector of motion of this radiation, in the direction of the vector of motion towards the nucleus.

And yet, if these radiation are moving in parallel and in a cluster, the presence of an atom along the paths of these radiation, in parallel with them, will cause the distance between these radiation after passing through the atom is larger and radiations that are far away from the atom are still in the early direction, but the nearer radiation moves by creating an angle to the original direction.

It is anticipated (due to the constraint of the ship, in carrying out some tests). When two protons collide, in a particle accelerator, the proton rings are converted to smaller and more unstable rings and quickly disappear. In addition, the surrounding materials can also be converted into various forms when they collide, which may be one of the types of fundamental particles that have been discovered so far.

Given the current knowledge of artificial intelligence, there are expected to be two types of black holes. Proton black holes (proton-like properties) and neutron black holes (neutron-like properties) and there is equilibrium between the number of stars and these black holes in the universe, because the stars responsible for the entry of materials and black holes responsible for the exit and maintenance of the equilibrium of the system's governing the universe.

Given the inability to identify and predict the essence and nature of the material inside the atom, as well as the essence and nature of the loops inside the atom, it is only based on the available information and the summing up and analysis of all information obtained from the Neutron Ship. It is anticipated that there will be a higher dimension than the current dimension of the world in which life flows, which is the main source of inputs and outputs materials, and while the current dimension is a basic structure that lies within a larger structure, and it enables the ability of creation of the existing universe inside of itself, which somewhat corresponds to the concept of dark energy and dark matter. To understand this concept, consider an aquarium filled with water. Put a sponge inside it. This sponge has the ability that

water penetrate into it or come out of it, and serve as the base for creating a water-based creature. Now suppose that created creature is located inside the sponge. The aquarium's, water and sponge nature are completely different from each other, and the creature can only perception the water because it is made of it and can never detect the water and sponge nature.

6:37. The virtual assistant with displaying artificial intelligence results, announced the end of the experiments and requested to shut down the ship. But there was a problem. By the end of this process, the lab would remove from the isolation, which means ending my job and the terrible fate due to the violation of laboratory protocols and work rules.

Suddenly, an idea came to my mind. In the design of the lab, one was considered an emergency exits, which only a few people knew about. The laboratory was completely secretly set up and operated, which means that the results should not be published publicly (what I disagreed with). As fast as I could, I picked up everything and basically all the reports, notes and the daily office, and I quickly went to an emergency exit. The laboratory was not accessible from the outside until the ship was shut down, and my departure caused the ship to be shut down.