

D. School 201

Chapter 201 - How to win awards quickly?

So if Lu Qiuqian discovered the Higgs boson, could he win the Nobel Prize like Ding Zhaozhong and Pell? The reality is sad, and this discovery cannot be awarded; because the theoretical work on the Higgs mechanism is almost done by Higgs, even if the Higgs boson is discovered, Higgs and his friends won the award. Not Lu Qiuqian.

So why did Lu Qiuqian do this kind of wedding dress for others? On the one hand, this discovery will indeed have a profound impact on physics, thereby promoting the great development of the entire physics session; the improvement of the physical level of the plane is naturally beneficial to their own plans.

On the other hand, although this achievement cannot win the prize, it can also exercise its experimental ability, and at the same time it will also gain a reputation. Now its reputation in the mathematics world is basically enough, but it is still a newcomer in the physics circle. Achieving this achievement will greatly enhance your status. If you want to use something else, the committee will carefully consider it, right?

Finally, unless it is a tremendous and irrefutable achievement, the Nobel Prize will not be awarded immediately. Although this achievement cannot be directly awarded, it can also be one of the many scientists concerned by the Nobel Prize in Physics Committee. ; Waiting for the next achievement, maybe it will be your turn. 【】

Lu Qiuqian didn't pay much attention to whether he won the prize, but to get the strong support of Hua Guo, I am afraid that the Fields Prize alone is not enough, because mathematics is finally a bit theoretical; there is a Nobel Prize in Physics. Better persuade the government to allocate resources and provide support to itself.

Therefore, Lu Qiuqian not only needs to win the prize, but also wins the prize within a short time! Only in this way can we save time and invest in the implementation of the plan as soon as possible.

If you want to win a prize in a short period of time, it is not enough to rely on theoretical research, because the theory needs time to verify after all; still take Higgs as an example. He proposed the Higgs mechanism in 1964, but waited until 1977. The boson won the prize only after it was discovered. It took almost fifteen years.

And Einstein's general theory of relativity has never won an award; others because lifespan can't be eroded by time, there are more examples of the unfortunate death of Nobel before his theory is verified. For example, Higgs's little partner Braut.

The time required to win the application results is shorter than the theory, but it is not possible to win the award within one or two years; the application results need to be disseminated and others need to use his invention to make achievements; Shuji Nakamura developed blue light-emitting diodes The time is 93 years, and the time to win the Nobel Prize is 14 years, which is also ten years apart.

University of Manchester scientists Andre Heim and Konstantin Novoselov are faster. It took only six years from the creation of graphene in 2004 to the award in 10 years. This can make Higgs depressed and die; but six years is still a bit long for Lu Qiuqian.

Not to mention the fact that there are a lot of physicists waiting in line to receive awards. Among the members of the Copenhagen School, Bohr won the prize in 22 years and Pauli won the prize in 45 years. During this period, after more than 20 years of waiting.

The youngest winner in the history of the Nobel Prize, Lawrence-Prague, won the award that year after publishing a paper entitled "X-rays and Crystal Structures" 15 years ago, but that was a matter of near ancient times. It is very different and cannot be used as an example.

Therefore, as mentioned above, Lu Qiuqian must produce results that can shake the entire physics session and can withstand the test completely, so as to win the prize in a short time.

I have n't thought about the specific plan yet. Although the Nobel Prize is very important, it has n't reached the point where I want to give up my work and concentrate on it. Besides, I have to complete my plan. It 's not enough not to come up with several Nobel Prize-level achievements, let 's deal with the Higgs boson first.

"Ah, it was a fruitless day!" Lv Qiuqian stretched his back and stood up. Today's data does not find anything that can bring surprises. Of course, this is also the normal state of scientific research. There is a new discovery, but it is not normal anymore.

"It's almost time to get off work! Drink a cup of tea and let's go to dinner together!" Dietrich-Belllein from the same laboratory immediately delivered the tea with just the right temperature.

Children who study in most laboratories generally have only two options to practice a strong thigh, or to hug someone else's thigh; although Lu Qiujiang joined Professor Xuft's laboratory in less than a month and a half Time, but he has become the thickest thigh in this laboratory. Dietrich can still hug tightly, in order to help him graduate smoothly.

So he has taken care of everything such as delivering tea, ordering takeaways, cleaning, etc. these days! Who says that the Germans are old-fashioned and flexible, and seeing how Dietrich looks like serving people is very familiar!

"Thank you, Dietrich!" This guy is not only good at serving people. He also did a great job of playing with experimental equipment and was a good assistant, so Lu Qiujiang readily accepted his courtesy, "Bayern will play against Hertha Berlin at home this weekend. If you want to go, I'll get you a few tickets! All are in the front position. "

From these few days of contact, Lu Qiujiang has known that he is a Bayern fan. Surely he would not refuse such a gift?

"Great!" Dietrich exclaimed with a fist, "Yes, will you play in the game?"

He can admire his five-body cast as a laboratory partner. He not only has superhuman performance in mathematics and physics, but even playing football can make Bayern such a rich man dump for him! Compared with him, he is completely scum!

"There is so much data to be processed recently! I'm afraid I don't have time to worry about this!" Just kidding, that game was actually conducted when the Olympic Games just opened. Did you go to the court to find a curse? Moreover, he has another reason, "The data of the previous few days is a little different. If we can detect this kind of aberration again from the remaining data in the next few days, maybe we will make a big discovery!"

"Well, I'm still not going to go with you to check the data together!" Dietrich replied slightly tangled. It's a pity to miss Bayern's game, but if you are not at Lu Qiujiang's side at the most critical time. When the time comes, even if you have made achievements, you will be embarrassed to sign your paper!

"Haha, it only takes two hours to watch the ball, nothing can be delayed!" Lu Qiujiang smiled indifferently, "not to mention Karl, Ludwig, and Frederick to help me!"

Hey, the loss is a bit miserable! After watching the men's basketball game against Spain, Lv Qiujian turned off the TV depressingly. A text message was sent to comfort Yao Ming, and a reply was received in a short while, "If you are here, you might be able to win it!"

The next day the media began to overwhelmingly report this men's basketball defeat, as expected, after criticizing the players involved, Lu Qiujian was also pulled out to refute.

Because of the previous first prize in the natural sciences, the official media will definitely not criticize him; but not all media are within the official control, and some sports newspapers and online media have begun to criticize Lu Qiujian for being unpatriotic. Come.

The fact that he joined Bayern was also dug out. Those journalists made Lu Qiujian a member of Bayern because of anger or sales considerations. It was just when the national team played for the Olympics. However, the best domestic defender ran to join a foreign football team! What makes sense!

When the fans saw the news, they first lost their voices briefly, holding newspapers to read over and over; today is not April Fool's Day, is the editor brain-washing? Reported all such fantasy stories? Isn't Bayern a big football player? Why did Lu Qiu build a basketball player to Bayern?

Maybe Bayern Munich basketball team? Some senior fans guessed uncertainly; but soon this possibility was rejected. Now that the network is well developed, someone immediately landed on the official website of Bayern Munich and found Lu Qiujian in the team roster Name and photo! Baidu Yixia, Hei, Yan and Brother watch the chapters without pop-ups for free

Lying trough, what's the matter? Didn't the Bundesliga start two games? Did n't find him when watching the live broadcast? After turning over the information of these two games, he didn't even enter the roster! Even Bayern ca n't even play off the bench and is unwilling to represent the country in the Olympics! This is too unpatriotic, right? ! For a time, Lu Qiujian's impression in the hearts of basketball fans fell to the bottom.

When he heard Yao Ming calling to convey the matter, he had n't paid attention to it. What did the Football Association and the Basketball Management Center scolded by the fans? Did n't they all live well? When you participate in the Olympic Games at your doorstep, all this will not break through, and you don't have to worry about it now.

But the plot quickly developed in a more weird direction. To his surprise, the "New China News", which was humiliated by him at the press conference of Beijing Normal University, stood up to help at this time. He spoke.

“New China News” immediately published a special report, greatly appreciated Lu Qiuqian’s choice to join Bayern instead of following the men’s basketball team to Athens to participate in the Olympic Games; the reason given is that citizens of a mature society have the right to choose their own lifestyle , Should not be forced by narrow patriotism and choose to dislike the Olympic Games.

Lu Qiuqian ’s choice reflects the style of persimmon oil in modern society. It is worthy of being cultivated by Princeton University in the United States. Even if he is not a substitute at Bayern, it is also the result of free will. It is better than the domestic brainwashed athletes Smarter!

The powder is really black! Lu Qiuqian realized the sinister intentions of the newspaper as soon as he saw the report. When this report came out, wouldn’t he immediately get himself the opposite of all the athletes participating in the Olympic Games! And depending on what they look like, there should be more than one comment, and I do n’t know how many insidious schemes there are!

But can you sue this media? It seems that it is not easy. People just elaborated a fact, did not fabricate any false information, and only made a slight choice in the selection of materials; for example, the other party did not report at all that Lu Qiuqian came to Germany to actually study at the University of Munich!

If Lu Qiuqian gave up the opportunity to participate in the Olympics because he asked to study, most fans will show their sympathy; but the “New China North News” said nothing about it, only that Lu Qiuqian directly received a doctorate from Beijing Normal University. Came to Germany and joined Bayern; this gives readers the impression that Lu Qiuqian not only did not participate in the Olympics, but also gave up his research career in order to come to Bayern as a substitute, it is really unforgivable!

Hey, worthy of the earliest public knowledge! This article does not know where it is higher than the guys of later generations! Lu Qiuqian shook his head and sighed, closing the page directly. There is really nothing to say about these people. No matter what reason you come up with, they can use their rich experience to mess things up.

For example, the situation of drug abuse in a certain place is more serious. They will immediately jump out and criticize the government ’s unlawful drug enforcement and waste of taxpayers. When the government begins to increase control, they will say that drug abuse is the freedom of every citizen. The government This is a violation of human rights! If the control is not strong enough, they will say that the government is incompetent, and even this little thing can’t be done well; if the government completely eliminates this kind of harm, they will slam the government again, the reason is that the government can see from this incident Unscrupulously destroying things you do n’t like is now a drug, what will be the future? This kind of government is terrible ...

This is the power of public knowledge. If you can't break you, you will be sick! The more you compete with them, the more they will come. If you ignore them for a while, they may be quieter.

But Lu Qiujian obviously neglected their fighting power. In this era, the well-known reputation is not as bad as that of future generations. This article really deceived many people, and domestic journalists also came to Germany. I tried to interview Lu Qiujian to see if the truth of the matter was exactly the same as what the "New China News" said.

Of course, all this is not known to Lu Qiujian. He still tries to find out the groups that are different from the huge data in front of the computer all day.

"Sports Weekly" because of Feng Hongqi's relationship, was still in a more cautious position in previous reports, but he was also sent from Germany to Germany.

"I'm sorry, Lu Qiujian refused all media interviews!" The head of Bayern Munich's outreach team dismissed his interview application with a cold face.

"Why?" Feng Hongqi asked in surprise.

"This is his own special request, and this has been marked in the contract with the club, and the club has no way to violate his choice." The staff of the outreach department explained.

"Can I go to the training ground to take some pictures now?" Feng Hongqi retreated and asked for the second place.

"Of course, Bayern welcomes friends from the media to shoot training; just need to explain in advance that you may not be able to meet Lu Qiujian!"

"Why? Is he not training with the team now? Where is he?" Feng Hongqi asked a series of questions.

"He should be at the University of Munich now!"

"Ah ?!"

Chapter 203 - Work-study

Feng Luqi has not paid much attention to his current situation since Lu Qiujian returned to his country. After all, he is a sports reporter rather than a science and technology reporter, so the reason why Lu Qiujian came to Germany is not very clear. Recalling his interviewee's scientific achievements are equally outstanding.

Does he do any research in Germany? Feng Hongqi guessed as he rushed to the University of Munich, but why did he join Bayern? He couldn't understand it anyway.

Feng Hongqi at the University of Munich looked blankly at the large campus. Where would Lu Qiujian be? Um, I remember when he first studied mathematics at Princeton University, right? First go to the Mathematics Department and ask.

Finding someone as a reporter is a basic survival technique. Feng Hongqi first asked someone to ask the office of the Department of Mathematics; then he found a professor who was still working in the office to explain his intention; this professor Valle happened to have participated in Lu Qiu The welcome dinner was built, so Feng Hongqi successfully took Lu Qiujian's current work place-the Physics Laboratory of Munich University.

Isn't he studying mathematics? Why go to physics again! With a belly of doubt, he hurried through the campus again and came to the outside of the laboratory of the Department of Physics.

"Lv, there is a reporter looking for you outside, saying that he interviewed you before, this is his business card!" The data retrieval came to an end, and Lu Qiujian, who had just walked outside, took the business card from the guard of the laboratory.

Feng Hongqi? why did he come here? Also because of that report? "Let him go to the reception room and wait for a while, I will go right away!"

Lv Qiujian finished the next work and arrived at the reception room. "Reporter Feng, hello, hello, what is the wind blowing you over?"

"Beifeng!" Feng Hongqi replied in a pun. The two of them had a one-bellied question, and one time was precious, so they went straight to the topic without any greetings. "Ah, aren't you studying at Beijing Normal University? Already joined Bayern? "

“I have graduated from Peking University! I came to Germany because I applied for a Ph.D. student of Professor Xuft! Oh. Professor Xuft is a professor in the Department of Physics at the University of Munich and has a great reputation in the physics class!” When it comes to Bayern Lu Qiujiang’s expression is a bit unnatural, “As for Bayern! It’s hard work and frugal study! You know that the consumption in Europe is much higher than that in China, and the scholarship alone is not enough!”

Poof ... Feng Hongqi sipped coffee on the coffee table. Fortunately, Lu Qiujiang responded quickly and escaped; “Sorry, I’m sorry, I’ll clean up, I’ll clean up!” After he wiped cleanly, he hadn’t recovered from the surprise; although I was reporting on basketball . But football knows it too! It’s a bit too exaggerated to consider playing football at Bayern as part of work-study program!

“Are you saying that you went to Bayern to play football for work-study?” Feng Hongqi had a toothache for a while. This is probably the most incredible reason he has heard of joining a professional team since he became a sports reporter.

“Yeah, otherwise what do you think it would be?” Lu Qiujiang asked innocently.

“Isn’t it Bayern’s salary ...” I can’t say anything until half of it, Bayern’s salary can be as high as nba? Feng Hongqi wisely decided to change the question, “How did you join Bayern? Didn’t you play basketball before? Are you good at football?”

“After going back to the country, I will be onlookers every time I go to the basketball court, so I changed to football! I also had a few scouts looking for me during school. At that time, I was too busy with my graduation thesis, so I did n’t agree. The chairman of the Bayern basketball team on a German plane invited me to join! “Lv Qiujiang said about his experience of joining Bayern. “I think the level of the German basketball league is probably not comparable, so I don’t think it’s boring, it’s better to try it on the football team! After the training, coach Magath felt that I could still sign me!”

After listening to Feng Hongqi, he just wanted to hit the wall, Xiao Lu, do n’t make joining professional football so easy, OK! There are so many professional players in our country, and only you can join the giants!

Take a few deep breaths to regain your mind, Feng Hongqi turns on the recorder again, “Why didn’t you play in the first two games? And didn’t you participate in today’s training?”

“The experiment is busy recently! Professor Xuft just gave a lot of data, and our laboratory is busy analyzing these data! Even the time to sleep is not enough, how can there be time to play football!”

Lu Qiu Jian said He will be taken to the laboratory. Well, with his reports, domestic disputes can be halted a bit.

After going through several procedures to enter the laboratory, and seeing the busy Dietrich and Karl in the laboratory, Feng Hongqi began to believe Lu Qiu Jian's claims.

After visiting the laboratory, we will return to the reception room. He has a new question, "Well, don't you have no time to participate in the Bayern game? Magath can allow this to continue?" No one can spend money to support the idlers?

"I said it when I signed the contract. My academic priority over football, I try to only participate in the home game; if there is a conflict between learning and experiment and the ball game, I give up the opportunity to participate! This month will be more busy, so I can't participate in Bayern temporarily Match! "Lu Qiu Jian revealed to him the content of the contract.

"So Bayern can agree?" Is it a complete unequal treaty! Even the attendance of the game cannot be guaranteed. Why do you sign such players?

"On the one hand, I actively reduced my salary. On the other hand, Magath may feel that I still have some value that can be used, so despite the differences between the two parties the contract was finally signed!" Hey, there is no way, who will let us play well!

"Then when will you appear?" Feng Hongqi felt faintly that his work location might be changed from the US to Europe!

"It takes about half a month to process all these data; if all goes well, I will have a chance to play in the fourth round of the home match against Leifeld on September 11th!" This is also in consultation with Magath the result of.

There is still a month in the world. Should I have time to apply for visas and other procedures? Feng Hongqi calculated secretly.

On the second day after the interview, Feng Hongqi's manuscript was sent back to China; the editor-in-chief of Sports Weekly published the full text after review; when the fans saw Lu Qiu Jian going to Germany to study, he was half angry. When they saw the word "work-study", they almost blinded the blind dog.

This reason is really good and powerful! It's almost speechless, especially Bayern fans, these four words make them burst into tears, without bullying me so much!

Chapter 204 - Achievement 1 (Thanks to Wuyang for feeding horses)

The domestic hustle and bustle calmed down, and the reporters who came later were blocked from the laboratory; it was enough for Feng Hongqi to help himself to speak, and to cope with other people Lu Qiujiang did not have this time.

Ding Zhaozhong described the process of discovering the J particles, "It is equivalent to 10 billion raindrops per second when it rains in Beijing. Only one raindrop is red. We need to find out this red raindrop from these 10 billion. . "

Lu Qiujiang is doing the same thing now. Find the group with distinctive characteristics from these vast data; it is slightly different from what everyone thinks. The discovery of microscopic particles through the detector is not like observing cells with a microscope. Find particles directly, because in most cases these particles will decay soon after collision, so you can't "see" it directly, you can only find it by "indirect observation".

The original data in the experiment only has the information of the final state particles. The main job of data analysis is to "reverse" these final state particles and "reconstruct" the intermediate state particles; finally, the results of the data analysis and the data that have been determined in the previous experiment Compare to see if you can find particles that have not been found in previous experiments.

In this process, mathematics knowledge such as sub-distribution functions and large number statistics are used, and Lu Qiujiang has a thorough grasp of these related mathematical knowledge, so he became the core staff of this experimental group soon after he arrived at the University of Munich. Professor Xuft also gave him the right to let him lead the team for data analysis, and Dietrich and others became his assistants.

Lu Qiujiang didn't let him down either. The experimental team's efficiency in analyzing and processing the data was greatly improved. The work originally planned to be completed by the end of September seems to be done on the last weekend of August.

To say that there is a lack of beauty is that despite the analysis of so much data, there is still nothing new to find, basically all particles have been confirmed by the standard model of particle physics.

Of course, Lu Qiujiang has been mentally prepared for this result. If scientific experiments are so easy to achieve results, humans have long flown out of the earth and embarked on the journey of the stars and the sea.

However, no new discovery does not mean that there is no gain. Through this period of practice, he has a more intuitive understanding of particle physics experiments. The data analysis during this period also made him discover some of the currently used data analysis methods. Deficiencies. And he can use his best mathematical knowledge to improve this method. To some extent, this is a result of more surprises in physics than the discovery of some unimportant new particles.

“Okay, let’s get here today! Let’s go back to rest and rest, and then continue to work tomorrow!” Seeing the end of work time. Lu Qiujian patted the table to wake Dietrich, Karl and others.

There was a sound of pushing chairs and stretching out in the laboratory, and other staff in the laboratory began to pack up and leave; the high-efficiency work of this period made them extremely excited, and it means that they can complete the work in a shorter time. With rare benefits such as bonuses and holidays.

“I estimate that there will be another ten days for this work to come to an end! I don’t know how long vacation Professor Xuft will give us? I have planned to have a pleasant holiday in the Canary Islands, beach, beauty Let’s look forward to thinking about it! “Dietrich closed his eyes and expressed his expectations. “Lu, why don’t you go with me? I promise I won’t be disappointed! Maybe we will have unexpected gains!”

He emphasized the word harvest and squeezed a wretched smile at the same time. Karl and Ludwig, Frederick and other people also laughed with understanding, and the biggest of them was only in his early thirties. What does Dietrich mean?

“I’m afraid you will be disappointed. Even if the work here is over, I should go to play for Bayern! I haven’t played a game in the new season!” Lu Qiujian still sits in his chair and doesn’t move at all. The meaning of leaving work, “If you go on like this, Magath may be deducting my salary.”

“Well. Okay! Then I won’t go anymore. When you are on the court, I will go to the Munich Olympic Stadium to cheer for you!” Bayern’s Allianz Stadium is not yet built, and the old stadium is still used at home. Trich said that he can go to the Canary Islands at any time. If he misses the opportunity to build a relationship with Lu Qiu, it is not worth it!

“Oh, you don’t need to change your plan at all. I have more chances to play at the Munich Olympic Stadium in the future!” Lu Qiujian created a new document while answering, trying to write his own ideas.

“There are also many opportunities to go to the Canary Islands!” Dietrich followed Karl behind and asked, “Lou, what do you want to eat? I’ll bring it to you in a moment!”

“Bring me some sausages and pork knuckles!” Lu Qiujiang is also welcome, as soon as he starts writing his thesis. I do n’t know when I will leave the laboratory. It ’s better to have someone to deliver food.

About half an hour, Dietrich returned to the laboratory alone, brought Lu Qiujiang’s dinner. After taking over the food that Lu Qiujiang gave him, Dietrich did not leave directly, but pointed to the computer and asked, “Lu, what are you doing recently? Is there anything I can help?” “

“I think there is still a lot of room for improvement in the mathematical part of the analysis method we are using now. I am planning to write an article of my own ideas for Professor Xuft to see!”

“Um ... so there is no place I can help?” Dietrich asked hesitantly for a while, if it is a physics-related work, he can also give Lu Qiujiang a big foundation with his solid foundation. Get started; but math ... hehe, she doesn’t think she can help Lu Qiujiang.

“No, no, I still need your help!” Dietrich is so attentive now but just wants some benefits. Of course, Lu Qiujiang does not mind giving him a chance to perform without affecting his work.

After the meal, the computer in the laboratory lit up again. Dietrich sat in front of his computer and began to work hard to deal with the tasks assigned by Lu Qiujiang.

“Lu, there will be a German Cup game next week, would you like to take this opportunity to feel the atmosphere first?” Magath called again within a few days.

“Well, I’m going to Israel next week, I’m afraid I can’t participate!” Lu Qiujiang’s answer made him depressed again.

“Why do you go?”

“Receive an award!”

Chapter 205 - Wolf Prize

“What award?” Magath asked for a long time.

“The Wolf Prize in Mathematics, the awards ceremony will be held in Jerusalem this weekend!” Lu Qiujian replied, perhaps hearing the depression in Magath’s tone, he quickly added, “You don’t have to worry, the work in the laboratory has already It’s coming to an end, I will definitely play in the fourth round against Leilfeld! “

“Well! Congratulations on winning this award, I will remind the club to congratulate you!” Bayern’s first two games were not smooth, only achieved a win and a loss, Magath also has a lot of pressure; Now that I heard that a new force is about to play, his mood is finally better.

Hung up the phone, and Magath turned his attention to his assistant coach, “Eich Cohen, do you know what the Wolf Prize in Mathematics is?”

“Wait for me to check it for you!” Eich Cohen opened the web search and found the result quickly. “Felix, the Wolf Prize is one of the three major mathematics awards in the world. The Max Planck Institute and Professor Frederick Hitzbruch of Bonn University won this award in 1988. “Like most people, Eichkohn’s first concern is the winners in his country.

“What are you asking about this?” Perhaps Ecker Cohen opened a webpage that did not record this year’s list of winners, he asked somewhat strangely.

The Marx-Planck Institute is one of the four major scientific research institutions in Germany. It is well-known. Even Magath has heard the name. When he knew the result, he was stunned for a long time before he recovered. “I was a while ago. The Chinese player Lu Qiujian signed, he said he was going to receive this award! “

“Ah!” Eichcorn looked back at this page several times, what kind of player are we recruiting!

When the news of congratulations to Bayern player Lv Qiujian on winning the Wolf Prize this year was posted on the official website of Bayern the next day, public opinion was even more tumultuous. Did a football player get the Wolf Prize? This style is obviously wrong!

Magath announced the news of Lu Qiujian’s debut in Bielefeld at the press conference, and it also attracted countless reporters from all over the world to Munich, their first appearance to Lu Qiujian full of expectation. □

“Professor, this is something that Dietrich and I summed up some time ago. Do you have any questions?” Lv Qiujian handed over the collated paper to Professor Xuft.

“” Some improvements on particle physics experiment data analysis “?” Professor Xuft slowly read the name of the paper, and then put it aside. In the past two days, Lv Qiujian has heard countless words, “Congratulations on winning the Wolf Prize in Mathematics; no one has ever won this award in the history of the University of Munich, but this time it should be to commend you in Princeton and Achievements made in Beijing Normal University! “

“Thank you! I will be back soon after receiving the prize!” Lu Qiujian thanked with a smile.

“This time Higgs will also go to receive the physics prize, if you have the opportunity, you can communicate with him more!” Professor Xuft reminded. “There are also Professor Robert-Blaut and Professor Francois-Engle, who are the partners of Higgs to complete the Higgs mechanism!”

“Yes, I also look forward to meeting with Mr. Higgs!” The importance of this matter was ranked by Lu Qiujian in the second place of the trip, and the third place in receiving the award.

The first one was of course to meet Natalie when Lu Qiujian walked out of the airport passage. I saw Natalie at first glance; she wore jeans and t-shirts like an ordinary college student, exuding a youthful atmosphere.

“Hey, nat!” Lu Qiujian quickly walked over while beckoning.

“Oh! Lu! I am so grateful to the Wolf Prize Committee!” Natalie’s petite body fell into his arms at once, “I was thinking about going to Germany recently, but I didn’t expect you to come first!” “

“Then thank your compatriots, so that we can meet earlier!” Lu Qiujian held her cheek and gently kissed her forehead.

The Wolf Prize is awarded by a foundation set up by the Jewish businessman Ricardo Wolff and his family with a donation of 10 million US dollars. It mainly rewards those who have made outstanding contributions to the promotion of human science and artistic civilization. Rewarded in the fields of agriculture, chemistry, mathematics, medicine and physics. Or one of the four major projects in the field of architecture, music, painting, and sculpture that has achieved outstanding results.

Because the Nobel Prize did not have a mathematics award, the Wolff Mathematics Award became the most concerned of these awards; among the mathematicians who won before Lu Qiu Jian were Chen Shengshen, Wiles, and Kolmogorov, Jean-Pierre-Serre, Robert Langlands and other famous figures.

“Where are we going now? I booked a room near the hotel where you are staying, shall we go to rest first?” Natalie’s face flashed a touch of blush. Apparently she did not invite Lu Qiu to build a hotel to rest .

If at other times, Lu Qiu Jian will certainly not hesitate to accept this invitation, but now he has more important things to do, “Wait a moment, another winner will arrive at the airport in an hour; he is a respected predecessor. I will meet him at the airport now, do you mind?”

“Who is it?” Natalie was not dissatisfied. But asked curiously.

“It is Mr. Yuan Longping!” If any scientist in the country is most respected by the people, there is no doubt that this is the big one. Coincidentally, he also won this year’s Wolf Agricultural Award; Lu Qiu Jian passed Beijing Normal University asked him his flight number, which arrived exactly an hour after him. If you do not welcome Mr. Yuan Yuan, Lu Qiu Jian will not forgive yourself. The Wolf Prize is not awarded every year. In addition to Mr. Yuan Yuan and Professor Tanksy from Cornell University this year. In addition to the agricultural award, Lu Qiu Jian won the mathematics award, and there is also a winner who is also of Chinese origin. Qian Xuesen’s cousin, Mr. Qian Yongjian from the University of California, San Diego, won the medical award; the chemistry award winner was Harry Gray of the California Institute of Technology; Higgs and two professors in Belgium won the Physics Award. The artist seems to be vacant this year.

“It’s a respectable scientist!” After hearing Mr. Yuan’s deeds, Natalie sincerely admired; Israel’s small land, people here have an unforgettable experience of food issues, in her view, Mr. Yuan. It’s not too much to be the greatest scientist in the world.

At the exit, they talked about the thoughts of parting while waiting for Mr. Yuan’s arrival; when an old man with a simple appearance and an old peasant walked out of the passage, Lu Qiu Jian built his clothes and greeted him.

Chapter 206 - Award-winning companions

“Hello Mr. Yuan!” Lu Qiu Jian stepped forward and bowed respectfully. He straightened up and introduced himself to the old man who made him respect himself. For a while. “

“Oh ~ are you the young man who won the math prize? I have heard your name many times in China!” Yuan Dadui extended his right hand with a smile and gave Lu Qiu Jian a light grip,

sincerely for Lu Qiujiang Was amazed by his youth, “I’ve heard that you are young and unreasonable. I just felt awesome at the first sight today!”

“The organizer is already waiting there, I will help you go!” Said Lu Qiujiang to support his arm.

“Eh, although I am older than you, but I can’t walk too old!” Yuan Lao stopped Lu Qiujiang’s hand with a smile, and the two of them walked to the organizer side by side.

At this time, Natalie also greeted him, looking at the old man who was inconspicuous at first glance, “Lao Yuan, this is my friend, Miss Hershler from Hebrew University! I just told her She is very admired for your deeds! “The airport is full of people, and Lu Qiujiang did not report Natalie’s name.

“Mr. Yuan, your achievements bring the gospel to the whole world!” Natalie praised heartily.

“Thank you for your false praise. Hybrid rice is the result of the efforts of the entire team. I personally can’t stand your praise!” Yuan Lao is still an old-school style, only to take advantage of Natalie’s inattention He squeezed his eyes at Lu Qiujiang and whispered, “Xiao Lu, what a nice girl, you have to seize the opportunity!”

Ha, I did n’t expect that when Mr. Yuan also had a childlike innocence, Lv Qiujiang was stunned. He took the organizer ’s car to the hotel. After all, Mr. Yuan was already in his 70s, and he was tired after a long flight So I went back to the hotel and took a rest; as for Lu Qiujiang, there was no such problem. After sending Yuan Lao to the room, she and Natalie came to the hotel she booked. Then

After some rain and rain. That is called a rejuvenated, glorious face! Back to the hotel arranged by the Wolf Prize organizer, all the winners of this year have arrived, and the welcome dinner specially arranged by the organizer is about to begin.

At this time, the reporters of the major media are indispensable, so Natalie is not suitable to continue to appear. Lv Qiujiang walked around with his wine glass alone.

There was what Qian Yongjian and Yuan Lao said. Harry Gray, who is also from the United States, stood by Qian Yong fitness; on the other side, two physicists from the Free University of Brussels surrounded Higgs in the middle.

Lu Qiu Jian glanced at the direction of Higgs, and finally went to the direction of Old Yuan; the dinner was still long, and he was not in a hurry to contact Higgs.

The three Chinese people got together at the same time, especially in this white-dominated banquet hall; think carefully about the five awards awarded this time. Three of them belong to the Chinese. Although Qian Yongjian's nationality is Chinese, it is enough to surprise people.

The background and experience of the three people are different. Since he graduated from the Southwest Agricultural College, Yuan Lao has been cultivating hybrid rice in the countryside. He has been working silently for more than 40 years, and finally made the Chinese people free from the threat of hunger through their own efforts.

Qian Yongjian came from a famous family. He was the 34th grandson of Wang Yue, the king of Wuyue. His family members are full-fledged scholars; his father is an engineer of Boeing Company of the United States; his brother is a professor at Stanford University and a famous neurobiologist. Academician of the American Academy of Sciences. Uncle is a professor of engineering at MIT; his uncle is the famous Mr. Qian Xuesen.

Influenced by the family environment, Qian Yongjian had a strong interest in science since he was a child. When he was still playing around, he was doing various chemical experiments in his own laboratory; "Nobel Prize" is known as the "Westinghouse Science Personnel Selection Award". At the age of 20, he received a bachelor's degree in chemistry and physics from Harvard. At the age of 25, he received a Ph.D. and postdoctoral fellow at Cambridge University. At the age of 52, he won the Wolf Prize in Medicine.

Qian Yongjian's life can be said to be the life that all scientists yearn for, and became famous in his youth. After entering the prestigious school, after finishing his studies, he began to control his own laboratory, and eventually won the highest honor in the scientific community (of course, he will have to wait for the Nobel Prize for four years).

"I was often said to be a young man. I think they should come to see your experience. I seem to have done nothing at your age!" Qian Yongjian joked about Lu Qiu Jian, and Poincaré conjecture last year The cracking of Yale and the Yale plagiarism shocked the entire scientific community in the United States. He also heard about his deeds.

"Mathematics is an inspirational subject, unlike medicine and chemistry that need to be accumulated, so I have the chance to get this result; if you let me study medicine and chemistry. Maybe I haven't even graduated from undergraduate now!" Lu Qiu Jian was not afraid of it either, and he generously laughed with Qian Yongjian.

His evaluation of medicine and mathematics is also somewhat reasonable. Mathematics focuses on theory, and medicine focuses on practice. Theory can be obtained in a short period of time, and practice must be accumulated step by step; this can be heard. Qian Yongjian was extremely happy. He shook his head and smiled, "If we say accumulation, no one here can compare with Mr. Yuan Lao. Yuan Lao has been insisting on the front line of cultivation for more than 40 years!"

"Mr. Yuan, your spirit deserves to be learned by all of our research practitioners!" Harry Gray, who was just five years younger than Yuan, gave his thumbs up after listening to Qian Yongjian's story.

"Xiao Lu, what project are you working on recently?" After finishing Yuan Lao, Qian Yongjian turned to Lv Qiuqian again.

"I was recently studying physics with Professor Xuft at the University of Munich. Mathematics is too theoretical. I still hope to do more practical research!" Lu Qiuqian briefly introduced his current situation.

"Learn physics!" Qian Yongjian pointed to Higgs, who was held by the stars there, "Then you have to seize this opportunity to communicate more with whom."

This is exactly what I am here for! The opposite Higgs also seemed to notice that someone was watching him, turned his head to say hello to Qian Yongjian, and then did n't know what to say to Brott and Engle, and the three turned around and walked over. .

I just thought about how to catch up with him, but now he came by himself! This is a good opportunity! Lu Qiuqian started to think about how to lead the topic in a direction that is beneficial to him.

Chapter 207 - Depression of Higgs

Although Higgs and Braut and Engle belong to different countries, they are regarded as the same group during the physical session. The official title of the Higgs mechanism at the European Nuclear Center is Braut-Engle-Hebrew Gus mechanism.

After the discovery of the Higgs boson, Peter Higgs and Francois Engle won the Nobel Prize in Physics at the same time, and it is regrettable that Robert Braut had died before this. Missed the award.

In other words, if the Higgs boson was found before Braut's death, it would be the three of them, not just Higgs and Engel, who would be on the podium of the Nobel Prize in Physics. Let two.

"What are you talking about? Can we join?" Higgs is one year older than Yuan Yuan, with a beard on his face and half of his hair lost, but his face is still red, like he is drunk. Fair; well, it looks a bit like Sir Alex Ferguson of Manchester United.

François-Engle is similar to him. He is also a beard of beards, and his half-bright head is particularly striking under the light, but his face does not look as ruddy as Higgs.

Robert-Brout is the oldest, but his hair is best preserved, but the beard is not as dense as them; the arrival of the three of them brought all the winners of this event together.

"We are talking about Lu's new life!" Qian Yongjian raised his cup, took a sip and said, "He told us that he is now starting to transform from a mathematician to a physicist."

Lv Qiujian nodded slightly to Qian Yongjian. He knew that Qian Yongjian's words were to create opportunities for himself to communicate physics with Higgs.

"Oh? Lv, which professor are you doing research with? What is the specific field?" These words really aroused the interest of Higgs. He turned to look at Lv Qiujian and asked.

"I am following Professor Xuft of the University of Munich to study particle physics, and you can be considered a peer!"

"Which red nose is it!" Higgs nodded. The top circle of physics is so big. He had contacted Prof. Schofft many times before in Cern. "He is indeed a very suitable mentor. I remember he was doing data analysis recently?"

"Yes!" Higgs really started this topic, and Lu Qiu established to keep up. "I am currently responsible for this work, and I just finished it before I left from Munich! If there is no accident, you will soon see the results of the last play!"

"Huh?" Higgs frowned slightly and looked back at Engle next to him. "François, I remember Professor Xuft said last time that the work of data analysis will not be completed until the end of next month? Did I remember it wrongly?"

“No, no! Professor Xuft said so!” Engle was also surprised. “Did Professor Xuft find a new partner to work with the data?”

They have a clear understanding of the manpower and time required to process these data. Now that the time for completion is advanced. Then Professor Xuft’s increased manpower seems to be the only explanation.

“No, Mr. Professor did not add new partners, and the data processing work is still completed independently by the laboratory under the name of the professor!” Needless to say, the efficiency of the work is naturally the reason why Lu Qiuqian joined.

“Why is that?” The Higgs trio suddenly became interested. As an artist, the greatest depression is that his work is not recognized by others. As an individual, as a theoretical physicist, the greatest depression is It is because his theory cannot be confirmed by the play.

Although everyone knows that as soon as the Higgs boson is discovered, the three of Higgs, Engle and Braut will win the Nobel Prize without dispute in the shortest time, but this special particle has never been found.

They will be regarded as the last hope for the discovery of the Higgs boson, if this big guy can no longer find such particles. At their age, I’m afraid they won’t be able to wait for the construction of a larger collider.

Whether the Higgs boson can be discovered depends on two aspects. One is whether the experiment can produce such particles, and the other is whether the staff can find such particles through data analysis.

The meaning revealed from Lu Qiu’s words just now. The data capabilities of Professor Xuft’s laboratory seem to have been greatly improved suddenly, which can’t help but excite them. This is related to the devotion of the three of them and countless Higgs mechanism researchers The big event that was finally confirmed!

“I am responsible for the data analysis in Professor Xuft’s laboratory recently!” Lu Qiuqian scratched his head pretending to be embarrassed. “You know, before I entered Professor Xuft’s laboratory, Study mathematics; I have some experience in data analysis, so this part of the data analysis work is completed earlier than planned! “

“God! How did you do that ?!” Higgs’s flushed face turned red with excitement, and Qian Yongjian quickly supported his arm for professional qualities.

“Mr. Higgs, please control your emotions. At your present age, being too excited is not good for your health!” Qian Yongjian immediately warned.

“Thank you. Thank you! I’m okay!” Higgs quickly signaled himself that everything was fine, and Engler on the side saw his emotions return to stability. Looking back to Lu Qiuqian again, he asked with excitement, “Is Professor Xuft buying a more powerful computer or did you use a new data analysis method?”

“Although Professor Xuft has submitted many applications for the purchase of new computers to higher authorities, you know that at any time the funds are very tight!” Lu Qiuqian smiled and rejected his first conjecture.

“So is it your job that improves the efficiency of data analysis?” Brout interjected, undoubtedly, because of his age and physical condition, he is the most hopeful Higgs boson among the three. Which one was found.

At this time, other scientists who attended the dinner party also noticed the change in atmosphere. Which youngest of the winners seems to have become the focus of the banquet. Higgs and other old guys who are more than three times his age will He went round to the middle, listening to his speech in silence.

What is he saying? With such doubts, they gradually moved closer to Lu Qiuqian.

Chapter 208 - Excited Higgs

Because the venue of the award ceremony was Jerusalem, the scientists present were mainly from the local Hebrew University, Israel Polytechnic University, and Tel Aviv University. If Natalie is also present today, she may meet the school. Professor.

Israel ’s territory is small, but its investment in education and technology is not low. Hebrew University and the Israeli Institute of Technology are ranked in the top 100 universities in the world. They are also regarded as the leading schools in the Middle East.

Though these professors are mostly Jewish, they are basically proficient in English. They quickly understood Lu Qiuqian’s words, and it seems that this young man can solve the problem of Higgs.

“Yes, in the process of data analysis, I found that the analysis methods currently used still have some defects, so I tried to improve the methods while conducting the analysis!” Lu Qiujian talked to the crowd, Higgs and Engle, Braut, and others raised their ears, fearing that one word might be missed. “Now it seems that my work has achieved some results, and the time required for data analysis has been greatly reduced.”

“Is the analysis method you have improved very mature? Are there any special requirements for users?” Engle quickly asked the focus of the question, if only top mathematicians like Lu Qiujian could use this method. If that is the case, then the significance of this improvement is not significant; CERN does not have the luxury of equipping each data analysis center with a Wolf Mathematics Prize winner.

“Of course, if I use this analysis method myself, it will indeed be more efficient than other groups!” Lu Qiujian is not hypocritical, of course, his ability is unmatched by other data analysis centers, “but this threshold of this kind of analysis method is not very high, and the staff of other mathematical analysis centers can be used after short-term training, and the efficiency can be at least doubled compared with the use of the old analysis method! My laboratory partners Dietrich, Karl, Ludwig, Frederick and others have learned this method!”

“This means that we can complete the data analysis in half the time now!” Higgs widened his eyes, and Qian Yongjian quickly patted his back, fearing that something bad would happen to him because he was too stimulating.

“Thank you, money, I think I can still control it!” Higgs freed Qian Yongjian’s arm. Two steps forward, “Lu, can you tell me what is your new method? If it’s convenient!”

“Of course, I have handed this method into a thesis to Professor Xuft. If the professor determines that the thesis is valuable and has no loopholes, he will help me deliver it to the corresponding journal!” Professor Xuft seems to mean that he wants to post this paper to the Physics Review Letter (abbreviated as prl). This journal, like the four major journals in mathematics, is the top journal in their respective fields.

“If it’s fast enough, I believe it can be seen next month!” Has Professor Xuft’s name. Presumably, the speed of reviewing the manuscript will be faster than usual. At this point, Lu Qiujian made a sharp turn, “Of course, if you want to know now, I will be happy to explain it to you, but the current environment does not seem suitable.”

Higgs looked around, and now it was a welcome dinner hosted by the Wolf Prize organizer. If it was changed to a professional speech, it seems that it is indeed not appropriate. “Why not go to my room now? We can have a private discussion! “

“Well, it seems that it’s still early before the end of the dinner! It’s better to wait for the award tomorrow. Let’s find another time to communicate?” I’m a normal man. Instead of going to Natalie’s room at night, I went to meet three old men. Is it possible to get swollen in a room? So Lu Qiuqian immediately declined Higgs’ invitation.

Of course, there is another reason why he wants to hang Higgs’ appetite. People often do n’t cherish things that are too easy to get. I believe that after a day and night of fermentation, Higgs ’curiosity will brew to the limit of tolerance; By that time, tell your own results, the effect will be much better.

Although Higgs now seems like there are several cats scratching constantly, consider that the organizers kindly invited them to give awards. I wasn’t doing too much myself, so I agreed with depression.

“Okay, Peter, we have waited for more than forty years. How can we wait another day?” Braut advised, of course, even if Lu Qiuqian’s method works, it does not mean that the Higgs boson will be Discovered immediately, so he was not as excited as Higgs.

“So that’s it! We will find a place to communicate after the award!” Higgs gently touched the glass in his hand with Lu Qiuqian, and then sipped out the champagne in the glass.

“Please forgive me for taking the time to disturb me.” An Israeli professor who listened for a long time couldn’t help but interject, “I just heard that you want to hold a small exchange event! I’m Harry Fu from Hebrew University Sternberg. I am happy to provide you with a place to communicate! “

“Hello Professor Furstenberg! I read your article when I was in Princeton. Your research on probability theory inspired me!” Lu Qiuqian held out his hand and held him tightly.

Harry-Fürstenberg is also an influential mathematician in the international mathematics community. Unfortunately, because he is not in Europe and the United States, the communication with the mainstream mathematics circle can only be carried out in periodicals; now listening to Lu Qiuqian praise himself Very happy A Wolf Prize winner affirmed his achievements, which is also an incentive for him, “I am very honored that last year I also planned to go to China It was a pity that I missed it for some reason! It will be a regret for my whole life! “

“The Hebrew University equipment should be more complete, where to go is indeed more convenient than in the hotel.” Higgs wanted Lu Qiujiang to inquire.

“I hope it won’t cause trouble to Professor Furstenberg!” Lu Qiujiang politely asked him to accept his invitation.

“It is an honour for Hebrew University to invite you and scientists like Professor Higgs, Professor Braut and Professor Engle!” Then he saw Lu Qiujiang nodded slightly before turning his attention to other onlookers. Everyone, “Of course, you can participate if you have time, Hebrew University will be very welcome.”

Yuan Lao, Harry Gray and Qian Yongjian and others are not very interested in this exchange because of the research field, but there are also many celebrities in the mathematics and physics on the scene. Sternberg surrounded him.

Chapter 209 - Lu Qiujiang's plan

Feynman’s famous saying: Mathematics is to physics like hands. Kinkyness is to sex. Love is very reasonable. Without mathematics, physics can’t be done, just like most men learn to pour out before trying to crack. Pappa, so that you can grasp the papapa skill; once you have tried it directly, it is Puyi, and it will become a scum after not much use.

So Higgs was so excited after hearing about Lv Qiujiang’s achievements. As the winner of the Wolf Prize in Mathematics, he said that it can improve the efficiency of data analysis. That must be a little sure; now it has been debugged. It is time to start experimenting. If the efficiency of data analysis can be improved again, then the chance of discovering the Higgs boson will be greatly improved. Seeing his lifelong expectations are about to be revealed, how can he not be excited.

Old people sleep lightly, coupled with this stimulus, Higgs turned over and over in bed and couldn’t fall asleep, so that when he presented the award the next day, he seemed extra spirited.

Lv Qiujiang is different. He won a great victory in the wrestling match with Natalie. With the first international award coming soon, his reputation will reach a new height, so he is more excited.

“... He successfully developed hybrid rice and discovered the genetics of rice heterosis, making an irreplaceable contribution to increasing the global food supply ...” The host expressed his passionate words. Mr. Yuan paid high tribute, “The winner of the Wolf Prize for Agriculture is Mr. Yuan Longping who came to China and Professor Steven Tanksni from Cornell University in the United States!”

Perhaps because of the different time of arrival in Jerusalem, the Professor Tansni did not show up at the dinner yesterday; now he is standing on the podium with Mr. Yuan, and the Israeli President Katsav personally awarded them awards Certificates and bonuses, veteran Yuan and Professor Tan Si Ni split the prize of 100,000 US dollars equally.

When Mr. Yuan received the certificate from President Katsav, Lu Qiu Jian couldn't help but stand up and applaud hard. Only in this way can he express his admiration for Mr. Yuan.

"Professors of this year's Wolf Prize in Physics are Professor Peter Higgs from the University of Edinburgh, Professor François-Engle and Professor Robert-Brout from the Free University of Brussels!" Then the three of Higgs The team boarded the podium.

"Professor Qian Yongjian from the University of California, San Diego came to the stage to receive this year's Wolf Medical Award!"

"Please invite Professor Harry Gray from the California Institute of Technology to receive the Wolf Prize in Chemistry!"

A famous winner took the stage in turn, and finally it was Lu Qiu Jian's turn. He was on the podium in the speech of the host and the applause of the guests.

"In recognition of Dr. Lu Qiu Jian's outstanding contributions to the Poincaré conjecture and the Langlands program, the committee unanimously awarded him the Wolf Prize in Mathematics this year! He is also the youngest winner in the history of the Wolf Prize! "The assistant who accompanied Yuan Lao was listening to the presenter's award speech under the stage. Secretly thinking, the youngest Chen Shengshen winner, the youngest first prize in natural sciences and the youngest Wolf prize, how many miracles will this young man still create?

Wow, he looks so cool now! Natalie sat in a corner looking at the familiar figure on the stage. Can't help laughing. Suddenly she seemed to think of something and frowned again. Oops, I am 23 years old this year! Mary Mattlin won the Academy Award for Best Actress for her outstanding performance in "God's Merciful Children" when she was 21 years old in 1986; it seems that she did not have this opportunity!

The award ceremony did not last long before it was announced. Although Higgs can't wait to go to the Hebrew University to communicate with Lu Qiu Jian, the organizer still has many activities to participate. This made him more anxious.

At the same time, the news and pictures of the awards ceremony also spread across the world with the Internet; Lu Qiujian's phone began to ring continuously, this is the second time since the list was announced.

"... Thank you for your congratulations, but I am afraid that I will not be able to return to China in a short time. The study and experiment arrangements in Germany are very full ... I will definitely return the first time after returning to China Alma Mater ... "Of course, Beijing Normal University refused to let this opportunity to expand its influence, Professor Zhang personally called.

As for the entrance of the school, the banner "Congratulations to the outstanding graduate of our school, Dr. Lv Qiujian, who won the Wolf Prize in Mathematics" is also displayed on the large screens of the school. The students of Mizuki University were particularly jealous and felt that their alma mater was crushed by Beijing Normal University.

"Hey, man! I know you will win various international awards sooner or later, but I didn't expect it to be so fast!" Patrice, who hadn't seen him in more than a year, also called to congratulate.

"Haha. How are you in Congo? Are you still playing basketball?" Patrice has left the country and returned to the land of Africa after graduating from Princeton.

"There is no time to play now! I can't find a suitable partner and opponent!" Patrice's voice revealed a bit of nostalgia for the battle with Lu Qiujian at that time Yes, you Is it right now in Germany? After a while, I might go to Europe to deal with some things, and then we will meet if there is time! "

"Okay, waiting for your arrival at any time!" Lu Qiujian remembered when Patrice arrived in Europe.

It's easy to go through the necessary process, Higgs can't wait any longer, he ignored the reporters interviewed, and went to Lu Qiujian, "Lu, let's go to Hebrew University!"

"Okay!" Lu Qiujian went to say hello to Lao Yuan and Qian Yongjian. In the car arranged by Professor Furstenberg, the group went to the Hebrew University.

As for Natalie, she quietly drove behind them. There must not be so many reporters at Hebrew University. Of course she wanted to be closer to Lu Qiujian.

Well. It seems that I haven't heard him give an academic speech yet! Of course, the time of teasing the two fools Jason and Elliott in the Harvard basketball court is not counted.

After a while, I used the improved method of data analysis to attract Higgs' interest, and then elaborated my views on the next trial, so as to leave a deep impression in Higgs's heart; so in the next trial, Higgs was not found. After the Sibos, Higgs might consider continuing to solicit his opinions? By that time, you can naturally participate in the experimental plan.

This is the biggest purpose of Lvqiu to come to Jerusalem.

Chapter 210 - Unlucky Witten

Although the scale of the European Nuclear Center is magnificent, it is functionally no different from other collider centers in the world. They all provide evidence for various physical theories through experiments and test whether the various physical hypotheses are in line with reality.

In a sense, this work is the same as Lu Qiuqian's cracking of Poincaré's conjecture, the only difference is that the cost of testing the physical hypothesis is much higher than the cost of the mathematical conjecture; high pay naturally has high returns, Once it is tested that a certain theory is indeed credible, then humanity is one step closer to revealing the truth of the universe.

Therefore, thousands of scientists, engineers, and more assistants and interns in CERN are for physicists such as Higgs and Witten, and physicists who can make CERN validate their theories are standing at the top of the pyramid and traversing all corners of the world, there can be up to about 20 people, and the Higgs trio are on this list.

Of course, Higgs is still luckier than Witten. Although the Higgs boson is difficult to find, it is nothing more than finding and not finding two options. If the experiment successfully finds the Higgs boson, then hope the Higgs mechanism will be established, the three pillars of matter and motion will tend to improve, physics will usher in a new chapter, and the Higgs trio will also quickly reach the podium of the Nobel Prize in Physics.

If the Higgs boson cannot be found or other products that negate the Higgs mechanism are found in the experiment, then the Higgs mechanism will be proved wrong, and the theorists can start to construct new theories.

And Edward Witten is not so lucky. His main contributions include the proof of the positive energy theorem of general relativity, supersymmetry and Morse theory, topological quantum field theory, the establishment of superstring theory and conjecture on the existence of M theory and many more.

However, his core work, superstring theory, just encountered a big crisis in 2003-string landscape thinking, the so-called string landscape, in simple terms, superstring theory is actually a collection of possible alternative theories (these Most of the alternative theories have not been completely constructed and discussed, and there are great difficulties in construction, but we can expect them to exist.) Those who did string theory in the early years believe that there is a method / principle that can eventually eliminate this situation. The only theory left is for the experiment to test its predictions. However, after many years, this principle has not appeared, and in order to achieve a certain harmony of superstring theory. It may be necessary to consider that the number of correct theories of the remaining candidates reaches more than 10^{500} (-yau compacting curl high-dimensional space method), which means that no matter what phenomenon you find in the experiment, you can almost expect from 10^{500} Find one of the 500 alternative theories to explain this experimental phenomenon, which makes string theory almost unprovable.

In simple terms, no matter what results the experimental physicists get from the laboratory. Will be included in the range foreseen by string theory, which will make the superstring theory lose the chance of being confirmed by experiment!

Higgs can also wait patiently for the next experiment, and pray that God bless him so that he can live to the day when the Higgs boson appears; and Witten has almost lost the promise of facing his theory through experiment. The chance of the Bell Award!

Edward Witten lost more than just a Nobel Prize in Physics. If the blueprint of superstring theory is finally proved to be the truth of the universe, then it will be a revolution of Newton's classic mechanics and Einstein's modern physics The physics revolution, several founders and leaders of string theory Edward Witten will be one of the drafters of the physics paradigm standing at the height of Einstein and Dirac, Heisenberg and others in the long future.

It is a pity that the crisis caused by the string landscape thought shattered the hopes of Witten and others, and the string theory does not seem to see a way out in a short period of time, and may gradually decline after not obtaining substantial progress for a long time. for sure.

Can certainly become one of the world's top scientists, and Edward Witten is not so easily defeated. He still appears in cern from time to time, maybe Lv Qiujian will meet him next time he goes,

Leaving Edward-Witten's misfortune aside, Lu Qiujian thought about the wording of the speech at the exchange meeting for a while. The problem that needs to be solved now is to make Higgs interested in his own views.

“Welcome to Hebrew University!” Fusternberg took them off the door of the school. Hebrew University has been built for nearly eighty years. Einstein is the first board member of the university ; Perhaps for this reason, the Hebrew University attaches great importance to mathematics and science and engineering. After years of hard work, the Hebrew University’s science ranking has reached the top 50 in the world.

“Here is the communication place I prepared for you. What are the shortcomings of you?” Not far away, everyone came to a small, fully-equipped multi-function hall with whiteboards, projectors, laptops, etc. .

“No is already good!” Lu Qiuqian shook his head and said. At this time, Natalie also hurried over and was talking to the staff at the door. Lu Qiuqian beckoned, and the staff put her in.

Wait for the staff to deliver coffee, Higgs can’t wait to look at Lu Qiuqian, “Shall we start now?”

“Okay!” Professor Furstenberg, who was the host, had no objection. Lv Qiuqian took the USB stick from his arms and walked to the computer to open his thesis, and then debugged the projector to project the article on the screen.

After everything was ready, I started my speech. “It is well known that when analyzing the data generated by the collision experiment, mathematical methods such as subdistribution functions and large number statistics are used. However, in the work of the previous stage It is found that the current method of physics is not the most efficient option ... “

While explaining, press the mouse to show his thesis line by line to the physicists and mathematicians present here, and ... Natalie, a graduate student of Middle East culture and history at the Hebrew University

The reactions of all the people on the scene were different. Although Natalie could not understand what Lu Qiuqian said at all, his confident and free spirit was enough to make her intoxicated.

The Higgs trio was frowned and fell into deep thinking. After all, their major was still physics, and the mathematical knowledge expounded by Lu Qiuqian was somewhat esoteric for them.

Only Steinberg heard it with relish, and nodded slightly from time to time, as if to appreciate the views expressed in Lu Qiuqian’s thesis.