

D. School 251

Chapter 251 - Experimental results

Ze Roberto and Lucio can return to Brazil to enjoy the sun, beaches and bikini beauties, Kahn and Schweinsteiger and others have chosen their own tourist destinations, while Lu Qiujian will continue to be in The University of Munich awaits the results of the experiment.

Slowly, each cooperative unit also completed its own data analysis, and summarized the results to the grid data center of cern: no Higgs boson was found; only some interesting signs were found, but there is no conclusive evidence. Prove the existence of the Higgs boson ... A report similar to this was passed to the core staff of Dr. Evans and other cern and theoretical physics such as Higgs by David Colin Home.

Is this experiment doomed to no gain? Evans did not worry that he would be blamed for failing to achieve the expected results in this experiment. His smooth operation has proved his credit.

If those officials messed up a large investment or a large project was discontinued halfway through the dismissal, they would pity the last sentence to refute their tuition or something, scientists would not have such pressure, especially this unique If they fail, they will happily announce, aha, we have verified a wrong path, and the physics is one step closer to the truth.

But despite this, it is still a frustrating thing not to find the Higgs boson. It will be fine if it is not found this time. What if it has not been found next time or next time? What if other laboratories found the Higgs boson in front of them?

When the last report reached Evans, he finally gave up the last glimmer of hope. All the data had been processed. The result was really the same as Lu Qiujian had originally predicted. This test failed to find Higgs. Dice is the last of the 62 particles predicted by the standard model.

Of course, it was not that no results were achieved in the course of this experiment. The smooth operation made physicists all over the world realize that humans have more advanced and powerful experimental equipment; through the analysis of the experimental data Many new discoveries have not been discovered before, and humankind has taken a solid step forward in the understanding of the physical world; many physicists have benefited from this experiment, and an article has been written and published in High-end scientific journals such as "nature", "", "Physical Review Letters".

Even though so many achievements have been made, Evans and others regret that the biggest mystery still has not been solved. As for Higgs, it is even more depressed, do you have to wait any longer?

The Nobel Prize in Physics is awarded in October each year, and January 31 of each year is the deadline for the Nobel Prize nominations for the year. The nominations received thereafter are counted in the next year. Before this time? If you can't make results before January 31st. Doesn't it mean that Higgs, Engle and Braut have to wait another year.

Higgs and Engle may be able to continue to wait, but Braut's physical condition is not very optimistic recently, and I do n't know if he can persist until the day when the Higgs boson is discovered.

The first-class scholars of the global high-energy physics class once again gathered in cern, trying to find out the reason why the experiment did not find the Higgs boson, and hope to achieve better results in the next experiment.

"Dr. Evans. Being able to run smoothly has proved your success, please don't be frustrated by the momentary setbacks!" Lu Qiuqian said when he met Dr. Evans; indeed, the largest machine in human history can function normally. It works, not without Dr. Evans.

"Thank you! We are discussing the reason why this experiment did not achieve the expected results!" Dr. Evans has recovered from the loss, and he raised his eyebrows naughtily. "The result of the game has been revealed. Which side has failed! "

"Gradually increasing the energy level is also reasonable!" Lu Qiuqian thought, he would really invite himself to participate in the decision of the next trial plan?

"Then it's time to cash out the bet!" Dr. Evans reached out again, "Lv, welcome to join the cern team!"

"Thank you very much for your invitation! I hope the next experiment will achieve a satisfactory result!" Lu Qiuqian's heart suddenly dropped. He stretched his right hand and clenched Evans tightly.

"Mr. Higgs, please take care of your body! Since it can run smoothly, according to the prediction, the discovery of the Higgs boson will be a matter of time sooner or later!" Higgs, Engle and Braut

have been staying in CERN recently. Waiting for the results of the experiment, after all, they are all people in their seventies, and after this toss, their spirits will inevitably be a bit uncomfortable.

“Thank you!” Seems to remember the last game, Higgs patted Lu Qiu Jian’s back of the hand, “I hope you can bring us good news!” Said his eyes turned to the worst of the three Robert Brout, seemed to want to say something. But in the end did not speak.

Lu Qiu Jian already understood what he meant. I believe that Mr. Brout, Mr. Englert and you will not be disappointed! “He put Brout’s name at the forefront as a response to Higgs.”

The summary of this experiment lasted for several days, such as whether the data analysis is accurate, whether the function of the detector is perfect, etc. Of course, the problem of insufficient energy level predicted by Lu Qiu Jian was also indispensable.

CERN’s staff will record and analyze these one by one, in order to be able to find out the true reason why this test did not achieve the expected effect.

After the conclusion of the experiment, physicists from all over the world also returned to their research institutions one after another, and Lu Qiu Jian also returned to Munich to pack up and go to Munich Airport.

It is still some time before the trial plan is re-formulated, and he can use these times to return to China to participate in another important event.

When registering, Lu Qiu Jian found that there were many Chinese people on this flight. However, when you think about it, it becomes clear that China’s economy is growing, and more and more people are going to work, travel and study in Europe. This is not surprising.

When he came to his seat in the first class seat, the Chinese man next door looked at him in surprise, “Well, are you Lu Qiu Jian of Bayern Munich?”

“Yes, I am!” Lu Qiu Jian looked back and looked at the passengers in the next seat. It happened that he also knew, “Are you ready to return home?”

Chapter 252 - Meet Perelman again

“Yes, isn’t it the winter break now! I will go back to accompany my parents!” Shao Jia nodded, “Little ... Dr. Lu, you are also returning home to visit relatives?” For how to call Lu Qiu Jian, Shao Jia 10 It’s tangled, shout brother, people are younger than themselves, shout Xiao Lu seems to be a

little bit older, they play in Bayern, they are mixed in 1860, they are inserted in several levels, so in the end, they have to be vaguely called Dr. Lu .

“I’m going back home to attend a meeting!” Lu Qiujian replied vaguely, “Shao Geza and don’t call me Dr. Shao, you are older than me, call me Xiao Lu!”

Seeing Lu Qiujian ’s kind attitude, Shao Jia only relaxed. After all, for these professional players, they are still under some pressure to face a major player. “Hey, what a pity! If it is against Hong Kong, Xiao Lu You also participated, we will definitely qualify! “

Well, that ’s right, if I go, it ’s not a simple math problem at all. I ca n’t even figure out a few goal difference. The officials ’IQ is worrying! “No way, I just happened to have a very, very important experiment, I can’t get away ... Brother Shao, can you call me when you are not training or playing! We are all in Munich, usually nothing Can we get together when we are together! “

“That feeling is good!” Shao Jiayi quickly took out his mobile phone and exchanged the phone with Lu Qiujian while the plane had not closed the cabin door. In fact, he had long wanted to visit Lu Qiujian, but the other party was different from him. I had no previous experience playing football in China, and it was not easy to bother me for a while.

The two said for a while that the situation in the Bundesliga and the Bundesliga this year, Shao Jiayi finally couldn’t help asking the question he had already asked, “Xiao Lu, haven’t you considered joining the national team?”

“The research tasks in the past few years will be heavier. I’m afraid I didn’t have that time!” Lu Qiujian replied lightly. “But by the time the Beijing Olympics, I should already be in the country! At that time, if the Football Association gave up an overage quota If so, I am still willing to play for the country! “Well, by the time of the Beijing Olympics. He is already 25, and has already exceeded the age limit of 23 years for the Olympics. If he wants to join the Olympic team, he can only think of the three overage players in each Olympic team!

“As long as the Football Association still has a little brain, it will definitely make you selected!” Shao Jiayi calculates the time. By 2008, he was 28 years old. It was the best age of a football player. His physical fitness did not decline. After many years of professional competition, he had accumulated very rich experience. If Lu Qiujianken joined the Olympic team, then the country The results of the Olympic team will definitely break through. If you can participate in this event, you can say that your career is no regrets!

There are only three overage players, and Lv Qiujian has one remaining and two remaining. If Sun can maintain his status until 2008, he can certainly occupy one, then there is the last one left. The national team still has Zheng Zhi, big head and so on. Players who are one level higher than others, this last place is not easy to handle! Shao Jia secretly made up his mind that he must maintain a good state in these four years so as not to miss the 2008 Olympic Games and regret it for life.

The plane went straight to the sky and quickly entered the stratosphere. Long-distance flight is very exhausting. After chatting for a while, Shao Jiayi couldn't stand it. After apologizing to Lu Qiujian, he closed his eyes and went to sleep. Lu Qiujian took out the cern from the bag, which was originally planned here. The experimental program conducted at the end of the month was studied.

"Brother Shao, the plane is about to land!" Lu Qiujian patted Shao Jiayi on the shoulder.

"Thank you!" Shao Jia went to the bathroom and wiped his face. When he came back to see Lu Qiujian, he was still as energetic as he was while holding a large stack of documents.

He froze and asked, "You haven't slept all the way? Still so good spirit?" Although I am a professional athlete, I don't have such good endurance!

"Oh, I was fascinated at first glance! So I didn't notice the time! Maybe I am used to staying up late in the laboratory for analysis habits!" Lu Qiujian said lightly.

Shao Jiayi glanced at the documents in Lu Qiujian's hands curiously, and saw all the complicated formulas and strange letters above. At first glance, he felt a little dizzy and couldn't help but admire Lu Qiujian more! Hey, look at others, Bi not only plays well. Even the knowledge is so deep, people are **** better than people, and they should be thrown away!

The flight arrived at Jingcheng Airport. Lu Qiujian refused Shao Jiayi's invitation to send him, and walked in the direction of Professor Zhang at Beijing Normal University at the exit, "Professor Zhang. How sorry to trouble you to pick it up!"

"Oh, it should be! Let's go, do you go to the hotel arranged by the school or go back to your house in Beijing Normal University? That house has been cleaned up with someone's help!" Professor Zhang took Lu Qiujian to the parking lot!

"Do all the other mathematicians attending the conference live in a hotel?" After receiving a positive answer, Lu Qiujian chose to stay in the hotel. "It is not easy for everyone to get together or stay closer, It is also convenient for communication! "

“Let’s do that!” Professor Zhang turned around and said that the students of Lu Qiuqian came, “While Wang Wen, Ye Chu and Xiang Zhen’s comprehensive results were not ranked first, according to the teacher who gave them a substitute, Their mathematics thinking is very keen; Xiaoye has begun to write papers under the guidance of Professor Ren! “Professor Zhang’s tone revealed a little unwillingness, hey, he was a bit reserved, and he didn’t speak first, but let the old staff pick up It’s cheap.

“Well, I also read that article. Although it is still not up to the rank of the four major journals, it is enough to send it to some international second-tier journals! I helped him choose a submission. It is estimated that it will not be long before there will be an echo. “Despite the distance across the ocean, Lu Qiuqian still did not relax the supervision of these three students.

The car stopped at the door of the hotel. The three students had already waited at the door of the hotel. They entered the room and exchanged some recent problems. They left first.

Squinted a little while, Lu Qiuqian pushed open the door and went out, entered the elevator to come to the communication center reserved for the mathematicians of this conference organizer, just near the door he saw a familiar figure.

“Aha, Grisha, I haven’t seen you for a long time!” Lu Qiuqian extended his right hand to the Russian genius mathematician.

Grisha-Perelman ignored the hand he extended, and it was a hug directly, “Lv, long time see! Ivanov of the Kurchatov Institute last time told me that you caused it again in the high-energy physics session. It’s a sensation! This is really enviable! “

Chapter 253 - Give awards to others

“Congratulations on the excellent results you made last year!” Lv Qiuqian patted Perelman on the back, and could not help revealing a message, “I am very stressed when I think of awarding you tomorrow. ! “

“Oh? So I won the award?” Perelman didn’t know the kind of surprise he had after winning the award. Perhaps in his opinion, communicating with mathematicians such as Lu Qiuqian was the main purpose of coming to Beijing As for winning the prize, it ’s the same thing!

“Yes, you and Terence are the winners!” As the founder of the foundation, Lu Qiuqian certainly knew the winners of the award he set up; after laughing self-deprecatingly, I was also dizzy, Say this to the guy who will give up the Fields Medal and the Clay Institute million dollar prize.

“Oh, thank you!” Perelman shrugged and immediately shifted the topic, “Yes, Lu, I have a new idea about Li Qun’s problem recently, you see if ...”

The two of them entered the communication room while chatting. Everyone’s eyes suddenly turned to see Lu Qiuqian could not help but take the first few steps, but after seeing Perelman’s concentration, he shrank back again, fearing to disturb them.

After coming to the sofa and sitting down, listening to Perelman’s report, Lu Qiuqian frowned and thought for a moment, and gave his reply. He had seen Perelman’s paper on Li Qun on the right. He understands the progress of his research.

When he was in deep thought, Lu Qiuqian finally stood up and greeted the mathematicians present, “Hello Terence! Welcome to the capital, you take a paper on the difference between Eldersh It ’s wonderful, it ’s the biggest gain in mathematics this year! Wu, I did n’t expect that we would meet again so soon! Is Mr. Laverge ’s body okay? Mr. Elki, I did n’t have time to visit Harvard last time. Very sorry ... “

Tao Zhexuan, Wu Baozhu and Elji also responded enthusiastically. Although Lu Qiuqian’s current research direction has been changed to high-energy physics, he can often see his articles in the four major journals. Completely out of the mathematical world. Not to mention the reason everyone came to the capital is that the foundation established by Lu Qiuqian is going to hold the first award ceremony!

Yes, Lu Qiuqian returned to the capital to participate in the first award ceremony of this new mathematics award established by him. After a year of operation, Grothendieck agreed to serve as the journal “New Mathematics”. After the honorary editor in chief. Gradually, many young mathematicians have selected this magazine as one of their target journals, which has made this new magazine a great development in this year, and the impact factor is also getting higher and higher, which is close to international second-rate journals. Of course, compared with the traditional four major journals, this new magazine still has a long way to go.

Lu Qiuqian looked at the people in the exchange center. As he expected, the mathematicians present were mainly young mathematicians such as Perelman, Tao Zhexuan, Wu Baozhu, and Elji. Like Gals and Deligne who last attended the Poincaré Conjecture Report They did not come with Lafouge; this is also conceivable. After all, their age is a bit older, and they have worked hard in their own inherent fields for a long time, and then it is a little unreasonable to turn rashly! However, the young scholars in front of me are at the most creative age in their lives. In the past year, they have made some progress in many fields, which is enough to satisfy Lu Qiuqian!

Amount, it is not accurate to say that there is no older mathematician. This is not the one who walked quickly to Lu Qiujiang. But his purpose seems to be different from Tao Zhexuan and Perelman?

“Haha, Lu, I’m so happy to see you!” Simmons came over with a big hug, and then whispered in his ear, “This year’s earnings have made all employees of the company very satisfied. I will be in the middle of next month Put this year’s dividend on your account! “

“Wow, this is good news! It seems that my plan is indeed effective!” Lu Qiujiang said to the world’s richest mathematician with the same voice.

“Look, have you taken a moment to think carefully about whether there are any improvements that can be made in the current program?” Simmons couldn’t help but say his purpose.

“I’m afraid there is no time! You know, the first trial did not achieve the expected results. I will go to Switzerland to participate in the formulation of the second trial plan after attending this ceremony!” And compared. The temptation of a little money is not a level at all!

Professor Zhang looked at the door and retreated, there were some young people in it, so I am not going to blend in with this old guy! After two steps, he couldn’t help but look back, watching Lu Qiujiang surrounded in the middle. Maybe ... maybe this young man will become the banner of their generation of mathematicians!

Hehe, this is not bad! Beijing Normal University finally has its own banner character in the international academic community! With such a good expectation, Professor Zhang quietly left The specification of the award ceremony on the next day is still relatively high. One court and one technology channel, Beijing TV, Science Daily, and Youth Daily “,” Education News “and other media have sent reporters.

The reporter of the court station confirmed it with certainty. Today’s electricity will definitely appear in the whole news of the court station in the evening. What is uncertain is the position of the news and the length of time!

Although the lineup of guests at the meeting was not as strong as the Huaguo Technology Commendation Conference and Lu Qiujiang last time at the Poincaré Conjecture Report. But it is also much better than the annual meeting of the Mathematical Society. The number one figures

from the Ministry of Science and Technology and the Ministry of Education came together to visit, and Lu Qiu built a good compliment.

“Ladies and gentlemen, welcome to Hua Guojing ...” As the promoter of this award, the task of giving a welcome speech naturally fell on Lu Qiujian.

When I heard the first sentence, the mathematicians who were present didn’t think they had looked around, did this time really have a sister to participate? Fortunately, female mathematicians are rare, but they are not without them. They finally found one or two female mathematicians who are as fat as precious ones.

The process of the meeting was very concise. After Lu Qiujian represented the foundation and Professor Zhang delivered a welcome speech on behalf of Peking University, the award ceremony officially began. This year, no achievements that can completely solve the ten major problems have appeared. It is a small award of the year.

The first winner was Perelman. When Lv Qiujian handed the medal to him, he could not help secretly expressing emotion. The feeling of receiving the award was different from the award!

Chapter 254 - Brief exchange

“Mr. Grigory-Perelman should be awarded the first Mathematics New Direction Award for his outstanding contribution to Li Qun’s problem in the past year!” When the award speech sounded, the scene was applauded by the photographer. The shutter is non-stop.

Perelman doesn’t seem to like this kind of occasion very much. After receiving the medal and cheque, he simply said thank you and hurriedly stepped down. Some reporters didn’t even have time to take pictures.

The second award-winning Tao Zhexuan is different. The dashing demeanor he talked to on stage is almost the opposite of Perelman. Coupled with his elegant appearance, he became the darling of the media.

Lu Qiujian raised a total of ten questions, so there were ten awards prepared this time. Unfortunately, only one year has passed, and mathematicians have just begun to shift their research directions, so that in the past year There are not many achievements that meet the criteria for awarding awards. Only four mathematicians from different countries are eligible to receive awards this year.

In addition to Perelman and Tao Zhexuan, a young scholar from France won a prize for his basic contribution to set theory; as for the last medal, which fell into the hands of a Chinese mathematician, he was reading under the academician Qiao. Bo's Liu Pengbo was awarded for his achievements in quantum algorithms.

When accepting the medal, Liu Pengbo again mentioned the name of Lv Qiujian, "... when I saw Dr. Lv's speech, I became very interested in quantum algorithms. Later, my mentor I verified some of the contents of his speech through a supercomputer, so I decided to transfer my research direction ... After more than a year of hard work, it was finally a small achievement ... Here I am Special thanks to Dr. Lu for pointing me in the direction ... "

"Old Qiao is really good luck!" Academician Gu looked at the young man on the stage with some jealousy and said to Academician Yang; hey, why didn't he have such a single character among his students!

"Oh, you should be jealous of your old job again in a few years! But he treats all three of Xiao Lu's students as darlings, and asks for help all day long. When they graduate, they may come to Professor Ren's door!" Academician Yang regretted it secretly, how did he react slowly at first?

"That's not necessarily!" Academician Guo interjected, "With the help of Xiao Lu. Whether they go to Princeton or the French higher normal school after graduation is a breeze, will they stay in the country? Besides, when they graduate from undergraduate, I am afraid that Xiao Lu will come back from Europe. Maybe he will bring them by himself! "

"Although it only takes more than two years for the doctor. But Xiao Lu is now gaining the reputation of Nuo Da in cern, even if he graduates within a short time, he will not necessarily return to his country?" Academician Yang retorted.

"It's possible!" The three of them turned their attention to Lu Qiujian, guessing his future movements. Cern's condition can be said to be the world's top, if it was replaced by himself. I'm afraid I can't come back in a short time.

This year, because there were only four awards to be awarded, the award ceremony ended quickly. Next, when the four winners each elaborated their academic thoughts, the reporters heard the clouds and mountains, but the mathematicians who were present Immediately he got up and listened attentively to every word that they spit out, afraid of missing something.

The process of this award ceremony was much reduced compared to the previous Poincaré conjecture press conference. After the four of them finished the report, they basically declared the

end; of course, Beijing Normal University, who is willing to stay and communicate, is of course very welcome.

So Lu Qiujian once again became a hot spot surrounded by mathematicians, especially those who were interested in the ten questions he posed, and asked him questions that had puzzled him for a long time.

Lu Qiujian's comers refused. Answering the questions raised by them made the mathematicians who were left surprised, and those who had taken a step earlier could not help but beat their chests and fell into deep regret.

After dealing with these people, Lu Qiujian did not rush to leave immediately, but called Ye Chu, Wang Wen and Xiang Zhen three students, he has been to Europe for half a year! It's almost a semester away from them. It's just that the communication through the Internet is not always smooth, and let's see how they have progressed recently.

"Let's talk about what you have learned recently?" Despite being a few years younger than them, Lu Qiujian has now become a master figure in the mathematical world. All three students were nervous in front of him.

"Let me talk first!" Ye Chu, the oldest of them, stood up and said, "I have been reading according to the bibliography you gave, including Morris-Klein's" Mathematical Thoughts of Ancient and Modern Times " Audi Freddie's "Mathematics Century: 300 Major Mathematical Problems in the Past 100 Years ..."

"Well." Lu Qiujian nodded. "The reason why you are reading these books now is to help you deepen your understanding of the development of mathematics and choose your most suitable path!"

Seeing how they understood it, Lu Qiujian continued, "It is not important to be familiar with the theorems and formulas, it is also not important to know what urgent problems need to be solved. The important thing is to understand through these words. The way that great mathematicians think and understand how they think about problems. This is the most important purpose for you to read these books ... "

"Okay, I have almost said everything!" Lu Qiujian got up and took his backpack. "This is a gift you have been talking about. Ye Chu, don't you say you like Kahn? This is his signature." Gloves, he wore these gloves to play in the last Champions League game! "

“There is also Xiang Zhen, this is Hermès’ scarf. I can’t see it. Your kid, I just found a girlfriend when I entered college? But is it better than your two brothers and sisters!” Lu Qiu Jian looked at him with a smile. Sorry to be true.

“Well, the model of the car that Schumacher drove, I still got it from Beckenbauer!” The gift was the most laborious.

After giving out the gifts, watching them with their eyes shining brightly, Lu Qiu Jian remembered that they were still eighteen or nineteen years old! Um ... I seem to be only twenty-two, can I be called a teenager?

After rushing to deal with things in the capital, Lu Qiu Jian didn’t even go home and embarked on the journey back to Europe. This time he did not return to Munich, but went directly to Geneva; Now it’s about time to make a plan for the second collision experiment! Don’t miss the opportunity you got from Evans!

Chapter 255 - debate

“It is too dangerous to increase the energy level of the experiment to 8tev! It is just the first experiment! The function has not been tested yet. What if there is a problem?”

“I think this experiment can start from 4tev, and then slowly increase to 5tev. If the Higgs boson has not been found by then, we will consider increasing the energy level to 8tev.”

“I also tend to gradually increase the energy level! After all, the purpose is not just to detect the Higgs boson! There are many projects waiting to be used!”

In the conference room of the team responsible for formulating the experimental plan, there was constant debate, and some people directly questioned the origin of the 8tev energy level of Lu Qiu Jian! There are some muddy ones, but there is not much decisive support for the plan proposed by Lu Qiu Jian.

For the doubts and disdains he encountered, Lu Qiu Jian had expected! Things like seniority do not only exist in the country, but in the nba rookie, we must give old players bags and buy takeaways! In the dressing room at Bayern Munich, an old player like Kahn is obviously more powerful than a rookie like Schweinsteiger!

Moreover, experimental physics is a very empirical field. In the field of theoretical physics, there may still be scientists such as Einstein and De Broglie who have made great achievements at a young age, but in the field of experimental physics, like Lu Most of the guys in Qiu Jian's grade can only help with the underlying tasks such as data analysis and equipment maintenance. Want to participate in the decision of the experimental plan, unless you are the core sponsor of the laboratory.

But cern's funds come from various member countries, and Lu Qiujian is not a representative of the main providers of funds in Germany and France. Why can people easily accept his opinions?

If it weren't for his outstanding contribution in the field of data analysis and the game with Evans, he would not be eligible to join this discussion.

"Although the discovery of the Higgs boson is not the only purpose! But it is currently the most anticipated discovery!" Lu Qiujian did not seem to be affected by the atmosphere of the scene, and still expressed his opinions in a gentle tone. "If we fail again and again! Will the member states support it as much as they do now? Will they consider reviewing cern's budget? Will they consider reducing investment? Even if they will readjust cern's Personnel composition? "

Scientific experiments are not always possible to produce results every time, but a large amount of investment has failed, but we have never seen any results. Cern's top management will feel pressure? It seems logical to adjust some people's positions under pressure!

Lu Qiujian put the cruel facts in front of them, and the quarrel in the conference room slowly disappeared. There are the best equipment, the best partners, and the most abundant funds in the world. As long as they want to develop in the scientific community, they can't afford to leave here; if they do it for a long time, as Lu Qiujian said If no results are obtained, when the staff is adjusted, will the words I say now become the basis for the staff adjustment?

Evans rubbed his temples. In the past few days when Lu Qiujian left, he and several core personnel have experienced many exchanges, and they still tend to gradually increase the energy level. He originally held this idea. But when he remembered the determined expression of Lu Qiujian and his bet, he was hesitant for a while!

If according to the existing plan, it may be a year later to increase the energy level to 8tev! If you can't achieve results for a year, will you still sit here safely?

Evans has been in cern for more than thirty years, and has taken over the construction work for more than ten years. It took half his life to finally see the perfect presentation in front of all high-

energy physics workers; now as long as he can find Higgs boson, even if he is not eligible for the Nobel Prize, it is enough to be a success!

If after he sadly left this post, someone else led the experiment to discover the Higgs boson, I am afraid he regretted that he could swallow the model that CERN gave him last month.

“Dr. Evans! All the construction work was completed under your witness! From your point of view. Is it possible to complete the 8TeV experiment?” Lu Qiuqian asked him in silence after seeing him for a while.

“Absolutely no problem!” Evans resolutely answered, and it was true that the construction process was troublesome. During the construction period of more than ten years, there have been many uncontrollable conditions. For example, the sudden drop of the crane caused the three staff members to return to the arms of God. For example, the liquid nitrogen leak that occurred when the construction was about to be completed cost more than 5,000. Ten thousand dollars to make up for this mistake, for example ...

But Evans' confidence in him never wavered. The smooth operation of the last test also proved this; the functional performance in this test was very stable, except that no Higgs boson was found. Outer. Everything is satisfactory; of course, if the representatives of France and Switzerland do not mumble about electricity consumption in front of themselves, it will be fine!

According to the design requirements, the energy level of the collision experiment can even reach 13TeV or even 14TeV. If needed later, you can continue to increase the energy level through equipment upgrades; it can be said that the 8TeV energy level experiment proposed by Lu Qiuqian can definitely be completed to a high standard.

Unfortunately, Lu Qiuqian is still too young after all! Evans couldn't help sighing. Even if he is the direct person in charge of the project, if the following people are opposed to Lu Qiuqian's plan, he is not easy to rashly support Lu Qiuqian.

In the final analysis, CERN is still a multi-country cooperation project. His staff come from various member countries, and management is relatively more difficult.

“Today's discussion is here! Let's go back to consider early, and we will continue to discuss tomorrow!” Dr. Evans rubbed his temple Helplessly used the procrastination.

After the clatter of the tables and chairs moved, the project team members who participated in the meeting left the meeting room in twos and threes, and the place was quiet again.

“Lu, don’t you leave? I’m afraid I’ll miss dinner if I don’t leave! I have traveled to collider centers around the world. I haven’t found a better cook than cern!” Evans tried hard to let himself It seems relaxed.

What he said is indeed the fact that cern’s food quality is hardly under the fame of high-energy physics! But now Lu Qiujiang has the intention to taste these?

If the Higgs boson is not found before the deadline for the Nobel Prize nomination, then Higgs will not be able to win this year, and the time to accumulate reputation will be delayed later, which is unacceptable to him!

Chapter 256 - Someone is more anxious

There are only two years left for his Ph.D., and he has no problem in getting four doctoral degrees; but what is the use of just one doctorate? The reason why he chose to follow Professor Xuft to read a blog is to use his relationship to enter cern, and then use cern’s powerful equipment to make achievements, so as to establish his position in the physics session in the shortest time.

But now the goal is only a small part completed, cern he is now in, but it is only a young man who is still valued by Dr. Evans. There is still a long way to go before formulating a trial plan.

According to his previous plan, first use the expectations of the Higgs boson in the physics session, so that he can show his ability in this experiment and find the Higgs boson, so that he can establish prestige in cern; let Those stubborn experimental physicists ignored the question of age and seniority and gave themselves the authority to formulate experimental plans according to his ideas, thereby creating their own achievements.

But now when it’s time to go to the door, he is still stuck outside the door because of age and seniority; if he is now fifteen years old, no, even if he is ten years old, Dr. Evans may have the courage to take care of himself The idea to formulate the second trial program, right?

Hey, this is the trouble of high-energy physics experiments! If you are experimenting in other disciplines, you might as well find a way to make a lot of money and prepare your own laboratory to complete!

But high-energy physics is too expensive! The construction of large experimental equipment such as colliders is too time-consuming, so he had to find ways to get to cern!

It's hard to live up to people's breath! Lu Qiujian shook his head and left the conference room. The moment he went out, he made up his mind that when he got his Ph.D., it would be no more than such a day! It doesn't matter if the laboratory is smaller in scale and has less funding! Never hold the laboratory's rights firmly in your hands.

After dinner in a hurry, Lu Qiujian did not return to the staff dormitories arranged by cern, but came to the area where theoretical physicists often appear.

Didn't get the chance to decide the next experimental plan, but he was very anxious, but it must be that other people would be more anxious! For example, Professor Peter Higgs! Throughout the physics session, I am afraid that no one can look forward to discovering the Higgs boson sooner than he and Engle-Blaut.

Lv Qiujian wanted to use the discovery of Higgs bosons as soon as possible to improve his prestige. Only Higgs and others had been expecting God particles for decades. It is well known throughout the physics; as mentioned before, although cern has tens of thousands of workers, the core is still less than twenty of the world's top theoretical physicists! Because the purpose of cern was to verify their theory.

"Mr. Higgs, good evening!" Lv Qiujian chatted about the weather following the habits of the British. "The weather is good today. I just saw the clear sky when I was outside, which seems to be a good sign!"

"That's a shame, I didn't go out all day today!" Higgs shrugged, seeing that he was really unhappy recently. He had great expectations before, but the last experiment disappointed him!

"It's a shame to miss such a good weather! You should usually take advantage of the good weather to go out and walk, so as to maintain a happy mood and a healthy body!" Lu Qiujian kindly advised.

"Thank you, Lu, but I'm really in no mood now!" Higgs leaned slumped on the chair. "You know, this distance is only one micrometer away from success, but I can't feel it for a long time. It's too bad! Sometimes I even want to simply give some hard evidence to prove that the Higgs boson does not exist! That way I won't be so concerned! "

"The last experiment has found traces of the existence of the Higgs boson, which proves that we are on the right path! This experiment is unsuccessful and there is the next time! Even if it is not

successful next time, it still exists. . As long as you continue the experiment, one day you will get an answer that will satisfy you! “I was thinking about how to bring the topic to this, but who knew Higgs took the initiative to mention it.

“Are you saying that the next experiment will not succeed?” Higgs is very keen on this now, and immediately frowned, “But the experimental plan has not been determined yet!”

“Um, I have been discussing the plan with Mr. Evans and his other staff for the past two days!” Lu Qiuqian’s tone revealed a sense of exhaustion. “Most people adhere to the plan to gradually increase the energy level. The energy level of the second trial may be 4tev. “

Speaking of here, Lu Qiuqian sighed, “You know, according to my last calculation. The energy level of the outfit will not be unambiguous until the 8tev discovery of the Higgs boson! Now I still stick to my opinion! “

“I remember your last game with Evans!” Higgs had an impulse in his heart If the last experiment really adjusted the plan according to the data given by Lu Qiuqian! Will there be better results?

Of course, he also knew that when Lu Qiuqian said that last time, the test plan had been determined. All the respect and humility work is ready. If there is no major accident, the experimental plan cannot be changed!

But last time, was n’t it right this time? The experimental scheme is still under discussion. Is it enough to increase the energy level by 0.5tev? The second experiment can be started immediately after the last experiment is unsuccessful, which is due to the factors that have just been put into use. If this fails, I am afraid it will not be so easy to restart!

Cern wants to sum up the experience in more detail. The cost budget for next year is being worked out. Judging from the past situation, this funding may not allow too frequent experiments, because such experiments are too expensive! There is no firm result, and the cost is not easy to apply!

“Yes, I still insist on my own opinion, the energy level must reach 8tev!” Lv Qiuqian added another fire, the amplitude of his nod and the tone of his speech were all made after careful study, he used With some knowledge of psychology, it seems extremely firm and confident!

This psychological suggestion was transmitted to Higgs through channels such as sound and vision. Higgs froze for a while before recovering. He closed his eyes and secretly calculated. Now he is

using his own influence to interfere in the experiment, or to stay still The result of the next experiment?

Chapter 257 - Decided! Eight Tev energy levels

“I’m a little tired, go back to rest first! If you have time, come here and chat with some of our old guys!” After a long time, Higgs got up from supporting the table and walked slowly towards the door with slow steps . 『

“I’ll take you home!” Lu Qiu Jian got up to support Higgs’ arm. What does he mean? Are you going to wait or ...

“No! I’m not that old!” Higgs waved his hand without looking back, and then accelerated his pace, and would disappear at the exit in no time.

“I’m not that old ...” 75-year-old Higgs saw that Lu Qiu Jian didn’t follow, rested a little while holding the wall, and he felt sad for a while. Although he didn’t want to admit, he was old after all! Just a few quick walks made me feel tired.

Yeah, after all, it’s already 75 years old! Even if medicine is developed now, my body is still healthy, can we really wait until that day? Even if he can wait, what about Engle and Braut, who is older than him? Can they also wait with themselves?

Especially Braut, his body has appeared in a variety of diseases, maybe one day this old friend will suddenly die and return to the arms of the Lord, should he let him leave with regret?

Of course, Higgs’ obsession does not come from the Nobel Prize in Physics. What he valued more was that he could see the Higgs mechanism confirmed in his lifetime, so as to build a basic model of matter and interaction, all of which are Only when the Higgs boson is discovered can it become a reality.

Went back to the room and lay on the bed, turning over and over but couldn’t sleep anymore; when he was old, his sleep was shallow, and because he had something in his heart now, he lay down for more than half an hour and opened his eyes.

Hey, just get up! Higgs seemed to have made up his mind, he lifted the quilt and got up. Turn on the bedside lamp, pick up the phone from the pillow, flip out a few numbers, hesitated for a moment and then pressed the dial button!

“François, have you slept ... if not, just come to my room? ... Okay, since Robert is with you, it would be better. Come together ... Yes. Yes, there is something annoying to discuss with you!”
“Hang up the phone, Higgs sits for a while, and walks to the kitchen in pajamas. Turned out the small snacks Engeler and Braut loved.

“Although I know that it is not appropriate to eat at night, I can’t help seeing these cute little cookies!” Engle went to the coffee table as soon as he came in, picked up a cookie and tasted it.

Talking while drinking tea, Engeler noticed that his old friend seemed to be absent-minded, so he put down the teacup in his hand, “Peter, uh, do you have any concerns?”

Higgs closed his eyes and leaned against the back of the sofa, patting his forehead gently with his right hand. After a moment, he opened his eyes and seemed to make up his mind, “François, Robert, about the next experiment. I have an idea ...”

The lights in the Higgs room didn’t turn off until early in the morning, and when Engle and Braut left, he seemed to put down his mind and lay on the bed with ease. Soon he entered his dream.

The next day, he knocked on the office of Rolf Hoyle, director of the European Nuclear Research Center, with Engle and Braut, and he only came out long after entering.

Then he visited the offices of representatives of the core member states of cern such as Germany and France. After a long conversation with them, they patiently listened to the suggestions of Higgs and others, and said carefully that the matter was important and that they needed to meet to discuss.

Then the senior staff of cern such as Lynn Evans, Rolf Hoyle, Bob Jones and representatives of the Member States in cern gathered in the room to start a long and difficult discussion.

Three days later, the meeting finally came to a conclusion. Of course, due to time constraints, they could not continue to discuss in this way. Even if there is no test task, it needs a lot of money for maintenance, maintenance, repair and consolidation. In addition, there are materials such as machines, computers, experimental equipment, injectors, etc. This big guy is like a greedy beast that devours money without stopping for a moment. The time before the first experiment has been consumed 1.5 With billions of dollars in funding, no one knows how much money will be wasted in this way.

Dr. Lynn Evans reconvened the main members of the experimental group, “The committee has already decided on the next experiment!” At this point, he paused and looked at Lu Qiuqian’s direction.

Lu Qiuqian’s mentality began to accelerate, did Higgs’ lobbying succeed or fail? Fortunately, Evans did not let him wait too much, he knocked on the table and said, “The next experiment will increase the energy level to 8tev! Now start to change the experimental plan based on this data!”

awesome! Lu Qiuqian couldn’t help but make a fist! The time required to formulate the test plan, the time required to complete the experiment preparation, the time required to conduct the experiment, and then the time required for data analysis! Adding up all the time If you are lucky, you may really find the Higgs boson before the deadline for the Nobel Prize in Physics!

Evans sternly stopped several engineers who had adhered to the step-by-step plan and began to assign tasks, “Lv, you come as my assistant, responsible for assisting me to develop a new experimental plan, Lafayette, you are responsible for Miller, you help Lafayette ... Gyllenhaal, you ... “

“Okay, let go of all disputes and opinions, and start working according to Juding now!” After Evans announced the adjournment, he brought Lu Qiuqian into his office.

Remained silent for a long time before Evans said, “Lu, because of this change, the committee, Mr. Higgs and I have taken great risks. If something happens during the test! I am afraid I will leave here!”

“According to the design indicators, the energy level of 8tev is far from reaching its limit!” At the beginning of the design, this big guy required to be able to withstand a collision of 13 or 14tev energy level. “You should spend more than ten years on you. This baby who has completed the construction by time is more confident! “

“You’re right! You’re right!” Evans said half-murmured and repeated a few times. He seemed to let go of his worries and regained his fighting spirit, “So good! Just let it This miracle in the history of human science will create a greater miracle for us! “

“I am honored to participate in this great experiment!” Lu Qiuqian stood up, “I am convinced of the success of this experiment!”

Chapter 258 - Busy preparation

With tens of billions of dollars invested, thousands of top scientists around the world are concentrated to make huge machines close to the limits of human science and technology. What is the point of finding a tiny particle that may exist?

People in 1905 did not understand the significance of the theory of relativity, but now our lives are not affected by it. From satellite positioning systems, nuclear power plants to mobile phone maps, portable networks, one hundred years later, our lives have been changed by the emergence of the theory of relativity Colorful.

Science is responsible for exploring the laws of this world, and engineering is responsible for studying how these laws should be applied. Our civilization has developed rapidly because of the continuous deepening of the exploration of the laws of the world; even now it is not known what Higgs boson can bring to humans Benefits, but people in the future will be grateful for this great discovery.

The truth is often before the application. Newton discovered the three laws of mechanics, and then people can use these laws to guide the design and manufacture of sports machinery such as trains and ships; Einstein's mass-energy formula allows humans to use energy again A step.

In 1590, Galileo dropped two iron ***** at the Leaning Tower of Pisa, revealing the truth of free fall movement; today, we came to the airport, took a plane to sleep, and opened our eyes to reach the city where Galileo was experimenting; This is the most intuitive reward of scientific experiments.

The experiment to find the Higgs boson is also an important step in the way of human exploration of the truth of the universe; to understand the great significance of the Higgs boson, we must first know a noun-Standard-, translated as the standard model, It is a set of theories describing the three basic forces of strong, weak and electromagnetic forces and the basic particles that make up all matter. It belongs to the category of quantum field theory and is compatible with quantum mechanics and special relativity. So far, the results of almost all experiments on the above three forces are in line with the predictions of this theory.

This is one of the most concise and accurate descriptions of the truth of the universe, which has been summed up by countless generations of human beings until the current stage of civilization. The Higgs boson is the last piece of the puzzle missing from the standard model.

Although this model still has many shortcomings, such as not involving gravity, the weak current symmetry breaking has not been satisfactorily explained. But if the standard model is finally confirmed, it means that human knowledge of the truth of the universe has entered a new stage, and

physicists can continue to explore higher levels of truth on this basis, and engineers can use this as Based on the creation of machines that were unimaginable before humans. Bringing earth-shaking changes to the entire world.

Therefore, the Higgs boson will be so valued, and people will spend so much money, manpower and energy to find it; on the scale of the development of human civilization, what is 10 billion dollars worth? What?

The wood of unity was born in the end; the nine-story platform started from the fortress; a journey of thousands of miles. Start with one step. Although the goal is great, but also to go step by step down to earth, Lu Qiujian has now started busy and intense work with Dr. Evans.

Ah, my current job is similar to that of Magath 's assistant coach Eich Cohen. CERN spent a lot of money like Bayern. They used one to build and one to build a luxury player lineup; these investments are for To achieve a certain goal, Bayern is for the league championship, the European Champions Cup, and CERN is for the discovery of the Higgs boson.

Magath 's job is to maintain the player 's status, formulate appropriate tactics according to the opponent and ensure victory, and Esiken assists him to complete these tasks; Evans 'job is to maintain and formulate corresponding experimental plans according to the experimental purpose. Lu Qiujian's job is to assist him in formulating plans.

"Lv, did Lafayette's report come in? If you don't, you can urge him right away! Without his report, you can't go to Switzerland and France to negotiate the power supply problem!" Evans looked up from the computer. Come, although he had just browsed countless reports and documents, he could not hear a tiredness in his voice.

"It has been handed in, but there are a few details that are not handled properly. I am making changes! You can see it in about seven minutes!" Lv Qiujian hit the keyboard with his fingers. Answered without looking back.

"Very good! We must do these tasks before the weekend! If you are responsible, time will be too late!" Evans praised him. He was very satisfied with Lu Qiujian's work. Not only can he complete his work efficiently and accurately, but also To help others speed up their work progress, but also to help myself modify the task allocation plan. The work efficiency of the whole group has been improved by 20%.

"You don't have to worry about the current progress, we can complete it in advance!" Lv Qiujian said firmly. The plan he helped Evans modify was based on his comprehensive consideration of the

team members' abilities, personality, relationships and other factors. Final adjustments made; after readjustment. In the past, the disadvantages of the group's blame and uneven distribution of capabilities have been greatly alleviated. If you can't keep up with the progress, it can only prove that the progress itself is problematic.

With this kung fu, Lu Qiu Jian went to any company in the world's top 500, enough to easily take the position of human resources director, let alone he can learn and observe based on this time. Identified the deficiencies in the reports and plans submitted by the team members and revised them.

Evans is now the easiest person in the entire team. He only needs to read the report that Lu Qiu Jian has handed to him, and then sign the consent opinion and submit it to the committee!

It's amazing to have such an assistant! I really envy the guy from Xuft, who can find such a good student. Evans expressed the same emotions as Higgs and Witten.

He can graduate in two years! Then invite him to work at CERN after graduation! Anyway, he is old and he should retire in the next few years. If he takes over, he will definitely play a bigger role! The Higgs boson is far from all purpose, and there are many important tasks such as dark matter exploration that need to be completed. During my tenure, I only need to find the Higgs boson! Let Lu lead this team to complete other work!

Without waiting until Sunday, all the experimental plans were ready, and Lu Qiu Jian sent the last document to Evans, and then came to him, "According to my calculations, if everything goes well, we will detect In the data returned by the device, when $M_{\gamma\gamma} = 125\text{GeV}$, it was found that the yield of two-photons increased significantly. This is the conclusive evidence of the existence of the Higgs boson! "

Chapter 259 - LHC restart

After reading the last document, Evans rubbed his temples and relaxed a little. Then he looked up and looked at Lu Qiu Jian, "The plan you modified is indeed much better than the first one, but it needs to be Is it too early to say that the Higgs boson can be found? "

"Shall we make another bet?" Lu Qiu Jian raised his eyebrows slightly, revealing a playful smile, and he was confident that he would win Dr. Evans again.

"Haha, you look like a young man at this time!" Dr. Evans laughed happily. During this time, all the members of Lu Qiu Jian's tossing were exhausted, um, as if he was excluded, which reminded him It was when I was in school that severe laboratory supervisor; now seeing the naughty smile on his face, I realized again that Lu Qiu Jian was still a teenager in his early twenties.

“Well, what do you want to gamble this time?” Although Dr. Evans is equally confident in the success of this experiment, he does not mind satisfying the small wish of Xia Qiujuan.

“If the Higgs boson is really found in this experiment, then I want to use cern’s equipment to complete an experimental plan that I made myself!” Lv Qiujuan threw his own purpose, “Of course, I guarantee that this experiment The purpose is also in the work plan of cern, but the method I take may be different! “

Um ... Dr. Evans frowned again, “Lou, you know, even if the Higgs boson is found in this experiment, we must continue to repeat the experiment to prove this discovery. It ’s not accidental! I ’m afraid I ca n’t spare time to complete other experiments in a short time! Besides, you are still too young and want to interfere with cern ’s experiment plan ... “

Evens spreads his hands, but this is only the treatment of top physics tycoons like Higgs and Witten! Lu Qiujuan may be able to do this after ten or twenty years, but now it is a bit presumptuous to make this request.

“Of course, I understand!” Lu Qiujuan nodded, and he was prepared for this, “I will do a good job of preparatory work for the experiment during this period of time. I will first publish some theoretical articles, if there are What I have reacted, I will show you the experimental plan again! If you and cern think the experiment is feasible, we can proceed to the next step! “

“So good! But I still want to remind you that your probability of success is very, very small!” Seeing Lu Qiujuan insists so, Evans is not good to refuse anymore, just as he is to reserve for the future!

“Oh, when I bet with you last time, did you also think that the probability of my bet is very small?” Lu Qiujuan responded with a smile, this time the result will be the same as last time!

“This is the first time I am expecting the other party to win when I bet!” Evans responded with a pun. I don’t know whether he said that he hopes to find the Higgs boson, or that he hopes that Lu Qiujuan can realize his wish.

“Let us wait patiently!” Lu Qiujuan responded in the same way!

The collated experimental plan was submitted to the committee, and the committee quickly approved it and began to prepare for the next collision experiment; commissioning the machinery and equipment, seeking cooperation between Switzerland and France, and inviting experts from all over the world to assist, relevant Various tasks such as material preparations were carried out in an orderly manner.

Looking for international cooperation, inviting people from other institutions, etc. are responsible for other departments, Evans and Lu Qiuqian together with a large experimental group began to check the maintenance status.

In the 27-kilometer-long underground tunnel, carefully inspect the past in a cutely shaped car to see if the detectors such as atlas and cms are in the best condition and mobilize enough liquid nitrogen to cool the low-temperature superconductor ... Lv Qiuqian The energetic advantages are revealed in the busy work.

Working for seventeen or eight hours a day, but no trace of fatigue, so that the envy of the staff of cern can't be more envious; even Evans and Higgs and others can't stand it any longer, and has urged him to pay attention to his body; Professor Te heard that he came from Germany.

The results of physical examination showed that everything was normal. Lu Qiuqian's body is healthier than all the staff of cern! They have nothing to say, they can only blame Lu Qiuqian's talent.

What they didn't know was that Lu Qiuqian didn't take a long rest after returning to the room. He squinted a little while on the bed and turned on the computer. While brushing, he conceived his theoretical article about Dr. Evans.

Is when the framework of the paper tends to be perfect. The preparations for the second experiment are also coming to an end, and high-energy physicists and media around the world have once again gathered in Geneva; but this time the number of people is still much less than last time.

First, people are not very confident that cern discovered the Higgs boson in the second experiment in a short time; the main function of the second has been demonstrated in the last experiment, unless it is believed that Higgs can be found. Boson, otherwise they are not interested in coming again for the second time. It is better to do more work in your own laboratory at this time.

On the media side, only professional technology media and a few large comprehensive media are left. As for others, they have lost interest in this place after discovering that the last experiment will not cause the destruction of the earth.

All in all, the second collision experiment was completed without being favored by everyone. Like the last time, Lv Qiu Jian accompanied Higgs and others to the testing room, waiting for Evans to issue an order to start the experiment.

“Atlas experimental group reports preparations!”

“Atlas experimental group is ready!”

“Received! Cms experimental group to report preparations!”

“Cms experimental group is ready!”

“Received! The experimental group reports on the preparation!”

“The experimental group is ready!”

.....

Repeat the same process as the last time Dr. Evans gave the order to start the experiment; under the order of Dr. Evans, two opposite proton beams were launched to an acceleration of up to 27 kilometers Inside the tube.

Each time they run, they will get more energy, and the speed will increase accordingly; finally accelerate to 99.9999991% of the speed of light, according to this speed, the proton flow can circulate 11245 circles in the acceleration tube per second.

“The energy level reaches the experimental requirement, ready to collide!” With this sound, the two proton beams collided in the pipeline, and the observer recorded all the moments when they collided, and formed a huge amount of data.

Wait until the end of the experiment, Higgs’ eyes turned to Lv Qiu Jian involuntarily. This time, can he really fulfill his long-cherished wish as well as the entire physics as he predicted?

Chapter 260 - Time is running out

After the data began to be transmitted, Lu Qiu established the most recent flight and returned to Munich. For him, every minute now is precious.

The deadline for the Nobel Prize for Physics nominations is January 31, and it is now January; at the same time, even if the Higgs boson is found, it still needs to confirm the time and the time for the news to spread. Before letting those with the right to nominate submit Higgs's name to the Royal Swedish Academy of Sciences, Lu Qiu had to find out the hard evidence of the existence of Higgs boson from these data as soon as possible.

It does n't matter much for Higgs and others to win one year early or one year late. They have been waiting for forty years and they do n't care whether they are one year late or one year late. Although Braut's health is not good, but Not to the point of danger.

But this is different for Lu Qiu! He has only two years left in Europe, and he must have his reputation as fast as possible, but he does n't want to leave Higgs to influence his chance of winning. He can get him on the podium as soon as possible! Not to mention that this is also related to his gambling with Evans!

"Hello everyone, tell everyone a good news and a bad news, which one do you want to listen to first?" Back to Munich, Lu Qiu did not go back to rest, and directly opened the door of Professor Xuft's laboratory.

"Of course it is good news!" Dietrich first responded, and he rushed to Lu Qiu to help him take down his backpack. "Tell us what good news?"

Seeing Ludwig, Karl, Frederick and others nodded in agreement, Lu Qiu snapped his fingers, "The second trial was very successful! The chance of finding the Higgs boson is quite great, guys! You now have a chance to become famous quickly, as long as you can find the key set of data first!"

"Wow! That's awesome!" Dietrich is still sorry for the last data, and did not expect the opportunity to make up come so fast!

After cheering, Ludwig raised his hand weakly. "So, Lu, what is the bad news you are talking about?"

"The bad news is that you may be very busy recently. Very busy!" Lu Qiu sat in his place and turned on the computer. "When I came in just now, the logistics staff had arranged a temporary

resting place in the empty room beside! Before the Higgs boson was discovered. Go to bed where you are tired! “

Since the time to go back to bed is to be saved, the degree of arduousness of the next work can be imagined, but none of the people present protested. The youngest guy in the room is full of trust, and since he said he can find the Higgs boson, it is worth the hard work! On the other hand, no matter in which laboratory, once the experiment is tense, overtime like this is normal. They are all outstanding figures among the younger generation of physics workers in Germany.

“I’ll go back and get my pillow first! I can’t sleep with other pillows!” Ludwig reacted first, and ran out of the laboratory quickly before the work started.

“I’m going to get my coffee too, I can’t drink coffee from school!”

“I’m going to prepare some clothes! And I have to give my pet a lot of care for others for a while!”

“I need to.....”

Soon the people in the laboratory ran clean, and Lu Qiuqian didn’t have as many problems as them, sitting alone in front of the computer and receiving the data from CERN.

When they came back, they were full of spirits, just like the soldiers about to go out. Also with them was Professor Xuft, “I have called to notify the students who came to help last time. If I need to expand the staff, I will arrange! Even if our school is not enough, I can temporarily borrow a group of people from the Technical University of Munich! As for the logistics service. I also arranged for someone to coordinate ... “He also realized this time very different from the last time, I directly found a computer that no one used, and sat down, “This time I will complete this job with you!”

Then. Everyone in the laboratory started a tense and busy work, even holding a pizza in one hand and a mouse in the other, and staring straight at the computer.

Chose pizza because it was easy to eat, and only one hand was needed to complete the eating work; soon the logistics staff had to carry a large stack of pizza boxes from the laboratory on time every day.

Professor Xuft 's age is a bit older after all, and his energy ca n't be compared with that of young people. He goes back to rest under Lu Qiujian 's persuasion after working 11 or 12 hours a day; I was busy for sixteen or seven hours a day. I didn't go to the temporary lounge next door until I could not bear it. I squinted for a while.

As for Lu Qiujian. It wasn't until the first thirty-two hours of work that he took his first break. After lying on the bed for less than four hours, he returned to the laboratory. After that, the daily working hours were no less than twenty hours, and Dietrich and others were frightened. Fear of what happened to him.

Repeats the energy of the physical examination in the cern Professor Xuft felt a little relieved. But let the school arrange for three groups of doctors to take turns outside the laboratory. Anyone who showed a little discomfort was ordered to see the doctor immediately. Fortunately, there were no unfortunate incidents; although the spirit of everyone was a little haggard, the body There is nothing wrong with it, even if a little tired, it will recover after a short rest.

The long and heavy mental work made Lu Qiujian feel a headache, let alone other people; now it is close to twelve o'clock at night, it is the most tired day of the day, bursts of drowsiness strike, the laboratory The sound of yawning sounded from time to time, and Dietrich's eyelids began to droop slowly.

Looking at his head bit by bit, Lu Qiujian was planning to let him go to the next door to rest, but saw Dietrich suddenly became energized, rubbing his eyes violently, and staring at the screen deadly.

Ok? His move made Lu Qiujian feel refreshed. The last time he discovered the abnormal data and found signs of the existence of the Higgs boson. Is this time ... if that is the case He is really a lucky guy!

"Lv, come over and see what this is?" The cry of Dietrich once again attracted everyone's attention, and those who started to sleepy immediately turned their eyes on him.

Lv Qiujian also pushed away the chair and walked quickly to his side, leaned in front of the monitor and studied it carefully.