

Analysis of culture development of Chinese table tennis

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<p>As a national ballgame, table tennis has played an important role in the social progress and the development of sports since the founding of new China. After more than 60 years of development, Table tennis in China has achieved unparalleled glory in the international table tennis world. The status of a strong country table tennis is unshakable.</p> <p>In recent years, with the Chinese ping-pong army has been dominating the international table tennis world. Although it is a matter of pride. From the perspective of the development of world table tennis, it is not a harmless thing. It is often said that sports have no borders, and the achievements of China's ping-pong movement cannot be realized by ourselves. Therefore, we should face this problem with an open mind.</p> <p>The 19th party congress pointed out that "a country or nation without culture has no soul." As a Chinese culture, table tennis should be promoted from the school, so that the spirit of this culture is not only popular in contemporary times, And let the table tennis culture in the folk transmission.</p> <p>Through the methods of literature review logical analysis and questionnaire method, this paper studies the contents of the development of Chinese ping-pong culture from the perspective of culture. And collect relevant literature and analyze Chinese table tennis culture from four aspects: spirit, system, material and campus table tennis culture. At the same time, it also makes some contributions to the future research of table tennis culture, sports culture and cultural self-confidence.</p>	
Keywords Table tennis, Culture, Development, China	

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1 Introduction

1.1 Research background

Table tennis has developed for more than one hundred years. Now, table tennis as a sport has been widely spread around the world, and has a large number of professional table tennis players, coaches and referees, science and technology personnel, table tennis fans and table tennis equipment and other resources. In China, table tennis as a national ball, the sport and development of table tennis inevitably formed the culture of table tennis.

Table tennis culture is the source power to guarantee the development of table tennis. Therefore, the study of table tennis culture has important theoretical and practical significance to promote the sustainable development of table tennis.

Looking back on the history of Chinese sports, sports has always been closely related to the dream of enriching the country and developing the people. Table tennis as a "national ballgame", since 1959 and our ping-pong team in the fierce competition has always maintained a strong vitality. Over the past half century and more, the Chinese table tennis team has made remarkable achievements in the international arena for many times, and the "grand slam" continues. This not only shows the strength of the Chinese table tennis movement, but also plays an important role in enhancing national cohesion, self-confidence and pride. But in recent years, our table tennis teams have been restricted in the international arena. This has a great impact on the development of table tennis in China. On the other hand, it is also very important for the education of table tennis culture in the school, which not only enables college students to understand the culture and spirit of table tennis, but also enables college students to continue the table tennis culture after going out of society, so that China's table tennis culture will never stop.

1.2 Purpose of research

The author hopes that by sorting out and analyzing the development of table tennis culture in China, more people can understand the development and culture of table tennis in China. Through the understanding of the ping-pong culture in the university campus, the Chinese ping-pong culture will continue in the future.

1.3 Research significance

From the study of spirit, system, material and college campus table tennis culture to make a combing of the development of table tennis culture in China.

This provides a reference for the future research on the customs. And to supplement the research content of table tennis culture in China and enrich my knowledge of national tennis culture, I hope to contribute to the spread of table tennis culture in China in the future.

2 Literature review

In this paper, the keyword "table tennis culture" was searched on WanFang data and a total of 59 results were found, including 3 master's theses, 1 doctoral dissertation, and 8 of the remaining 56 journal literatures were published in sports core journals.

2.1 Core concept

In the study of table tennis culture, the definition of "table tennis culture" is mainly as follows:

"*Debate on the concept of national sport culture*" (chen qihu 2009, 31(4):110-113) believes that "national sport culture", namely ping-pong culture, is "the material and spiritual process and result of all ping-pong sports with distinctive Chinese characteristics created by Chinese people in the practice of ping-pong".

"*Exploration on the connotation of table tennis culture*" (Zhong Xia. 2010. 18(7) :110-112.) pointed out that "table tennis culture is the sum total of people's concepts, relevant systems, equipment and facilities formed around the table tennis sports as well as its formation and development process". Zhu hongsheng defined ping-pong culture as "all the material and spiritual achievements created by the participants in the social practice of ping-pong" (Zhu hongsheng. 2011,8 (5):122.). Liu yanfeng et al. analyzed the connotation of ping pong culture from three aspects, namely, spiritual culture, institutional culture and material environment culture.

To sum up, the definition of table tennis culture in this paper adopts the definition of Liu Yanfeng, that is, table tennis culture is the sum of spirit, system and substance of table tennis formed in the process of social practice around table tennis sports.

2.2 Research on ping-pong culture

2.2.1 Cultural characteristics and social values

(1). Cultural characteristics of table tennis (Qi ge .2018)

1. Succession.

Since the founding of the new China table tennis team in 1952, with the development and progress of economy and society, table tennis in China has formed a table tennis culture with Chinese characteristics after the integration, development and change of table tennis by combining the world table tennis culture and summarizing the development experience of Chinese table tennis

2. National character.

Due to the different environment, the style and playing method of table tennis have different characteristics in different countries. "The differences of national culture are reflected in table tennis, which makes the culture of table tennis a strong national character." (Fang Chujie 2017.)

3. Fairness.

Same to other sports, table tennis is fiercely competitive, and it provides a fair environment for the development of table tennis, from competition opportunities to competition rules to moral constraints. The fairness of table tennis is also reflected in the athletic achievements. Although the strong country of table tennis is always the winner, it also provides a good environment for the development of table tennis with its fair and open attitude towards all competitors in terms of technology openness and talent exchange.

(2) Cultural characteristics of table tennis (Fang Chujie 2017.)

2.National character.

In different regions and in different races of table tennis they all have their own national characteristics. There are different styles of play and tactics.

3.Political commitment.

As a sport activity, table tennis has its own political function. As a diplomatic means, the most famous is the "ping-pong diplomacy" in the early days of the founding of new China. In addition to its diplomatic function, its political nature is also reflected in inspiring the national spirit. The Chinese ping-pong corps has won honor for the motherland in the international arena for many times, and the "ping-pong spirit" has been integrated with the patriotic spirit.

(3) The social value of table tennis

An analysis of the cultural characteristics and social value of table tennis (Liu Yanfeng & Sun Chi, 2012) points out that “the social value of table tennis is mainly embodied in education, politics and economy.” Table tennis has great education value for players and fans, inspiring people to work hard and strive for progress. Its political value is reflected not only in diplomacy, but also to a large extent in connection with our patriotism, which sublimates the national spirit. The economic value of table tennis is more and more obvious driven by professionalism and marketization. High bonus and fierce competition make the competition more and more entertaining, and bring more and more sponsorship. For the national development of sports industry, sports tourism, sports lottery, sports supplies, etc. table tennis provides strong economic support. At the same time, table tennis also nurtures our sports cause and makes positive contribution to economic development.

2.2.2 Ping-pong culture communication

“The influence of “overseas ping regiment” on the cultural communication of table tennis” makes an in-depth study of the reasons for the emergence of “overseas ping pong team”, the advantages and disadvantages of the development and dissemination of table tennis. The advantage of overseas table tennis teams to foreign countries lies in their ability to improve table tennis performance in a short time and promote material change, but there are great hidden dangers in the following talent cultivation and management. “Research on the germination and communication of table tennis” research on the cultural communication of table tennis, finds that the early communication has very important social value and guidance basis for table tennis. “ *In the development of table tennis in China in the early 20th century* ” was li Youqiang's that analysis of “the newspaper reports on table tennis, found that table tennis organization, tournament, rules and women's table tennis is the main direction of the study of the development of China's table tennis. Other issues about the spread of ping-pong culture include “*on table tennis as a public media*” research on the cross-cultural communication of Chinese table tennis published by Li Rongzhi in 2013 and his dissertation of 2012 “research on the historical evolution and intercultural communication of table tennis”, etc.

2.2.3 The development of table tennis plays an important role in integrating table tennis into social life

The existing research on the development of ping-pong sport is mainly carried out from the perspective of education scientific research and competition. About table tennis education, scientific research mainly include: *“the theory of the value of table tennis in the sports education teaching for senior high school”* discusses the development of table tennis teaching in high school from three aspects: student health, education and cultural value. It is pointed out that only the full integration of table tennis into physical education can play the greater value of table tennis. *“Research on the scientific research status of China's table tennis culture”*

2.2.4 Chinese and western ping-pong culture.

The research on the development of Chinese and western ping-pong culture is mainly to analyze the development of Chinese table tennis in the context of the world. *“An analysis of the connotation of traditional Chinese philosophy of table tennis culture”* analyzes the expression and function of traditional Chinese philosophy such as the five elements of Yin and Yang of Taoism and the views of the mean and benevolence of Confucianism in the culture of table tennis. *“From the perspective of western culture in China table tennis culture of” harmonious competition “thoughts”* discusses the value of China's table tennis culture in the post-Olympic period from the perspective of the differences and conflicts of western sports culture values, and points out that China's table tennis culture integrates the traditional Chinese thought of “harmonious integration” and western values of “science, rationality, freedom and competition”. Other research works on the cultural characteristics of the ping-pong era include *“the development of Chinese and world table tennis”* and *“the special analysis of table tennis universalism in the context of sports globalization”*

To sum up, the existing research results on ping-pong culture mainly focus on the characteristics and values of ping-pong culture, the dissemination of ping-pong culture, the construction of campus ping-pong culture and the transnational combination of ping-pong matches. Although some important achievements have been made in the academic world, the overall research on ping-pong culture is insufficient and the core achievements are insufficient; The research direction is concentrated and the innovations are insufficient; There are few researches on

the longitudinal analysis of ping-pong culture and the ping-pong culture with Chinese characteristics. Therefore, this paper analyzes the development of ping-pong culture in China from the perspective of spirit, system and material.

3 Research contents and methods

3.1 Research contents

This paper mainly studies the development of Chinese ping-pong culture from four aspects: the spiritual culture of ping-pong (emotional value, moral quality and belief), the culture of ping-pong system (ping-pong technology, sports rules, strategic system), the influence of ping-pong and university campus table tennis culture. As a national sport in China, table tennis culture plays an important role in the development of Chinese culture. Therefore, it is necessary to study table tennis culture material (environment) culture (site, facilities, equipment) on education.

3.2 Research methods

The research methods of this paper mainly include literature review, logic analysis and questionnaire method . This paper takes WanFang data of China as the database and USES "table tennis culture" as the key word for retrieval. As of September 2018, a total of 59 literature results have been obtained. Through classification and comparison, the achievements and shortcomings of current research on Chinese table tennis culture have been obtained.

3.3 Logical analysis

As for the research on the development of ping-pong culture in China, this paper is carried out from the perspectives of spirit, system and material. The author needs to use logical analysis to summarize, deduce, analyze and synthesize the obtained contents in the retrieval and comparative analysis of materials.

3.4 Questionnaire method

Through the investigation of 25 male and 25 female students in 10 colleges and universities in GuangZhou as the survey objects online survey. Each school conducted a questionnaire survey of 5 students. To investigate the understanding of table tennis culture and the popularity of table tennis in their school. According to the survey results, there are 32 students who know and love table tennis culture very much, among which boys account for the majority and girls account for the minority.

4. The meaning of table tennis culture

Table tennis culture is gradually formed and developed with the continuous development of table tennis. Table tennis originated in Britain at the end of the 19th century, from the development of tennis, the beginning of the 20th century in Europe and Asia boom development. Table tennis was introduced into China by Japan in 1904 and developed gradually. The development of table tennis as a sport in the world has laid a solid foundation for the development of table tennis culture. In this study, by using the method of literature materials and combining with the actual situation of relevant research and development of table tennis project, I carefully summarized and sorted out the table tennis culture, which refers to the combination of people's concept and cognition formed around the participation of table tennis project, relevant system, equipment and facilities, cultural inheritance and its formation and development process.

Table tennis and its related sports equipment and facilities are the material carrier of the development of table tennis culture. People's pursuit to participate in table tennis sports is the inevitable requirement of promoting the development of the system and facilities of table tennis culture. The formation and development of ping-pong culture reflects the birth, evolution and mature development of ping-pong as a cultural carrier. Table tennis culture is an indispensable part of sports culture. Sports culture is an important part of culture and form of expression. Sports culture is bound to be restricted and influenced by social culture, and the changes of social culture will inevitably be reflected in sports culture. To some extent, table tennis culture has become a concrete epitome of social culture.

5 Analysis of Chinese ping-pong culture

5.1 Analysis of Chinese ping-pong spiritual culture

The development of the spirit culture of Chinese table tennis mainly refers to the value emotion, moral quality and belief displayed by Chinese table tennis. "In 1981, prime minister , summarized the Chinese table tennis team's successful experience in the world arena as five points and summarized: "Spirit of table tennis". It means the spirit of embracing the motherland, looking at the world and winning glory for the country; The spirit of hard work, self-reliance and hard struggle; The spirit of perseverance, diligence, study and innovation; the spirit of collectivism in the spirit of solidarity and combat; The revolutionary optimism and revolutionary heroism with no pride in victory or defeat." (Er mu,1994,)

Whether the Chinese table tennis team always strives for the first place or keeps the top three, it reflects not only their affirmation of their own ability and strength, but also the attitude of the Chinese table tennis players to be modest and upward and win glory for the country.

5.1.1 The patriotism of the Chinese table tennis team

The honor that the athlete obtains in the international arena time and again is ping-pong patriotic spirit embodiment. According to the database on the official website of China table tennis association. The author has sorted out the awards of Chinese table tennis teams in three international competitions since October 23, 2017 (table 1). From the below table we can see that "glory has always accompanied the Chinese table tennis team. "National ball remind the Chinese ping-pong people not to forget the mission. So, again and again "from scratch", throughout the past and present of Chinese ping-pong ."

(China table tennis association,2016)

Table 1. China table tennis international competition awards

category	Project	Medal	Total
World Cup	Team champion	17	60
	Single champion	43 (Including a women's doubles champion.)	
World Table Tennis Championships	Team champion	40	138
	Single champion	98	
The Olympic Games	Team champion	6	28
	Single champion	22	
Total			226

5.1.2 The spirit of hard work and innovation of Chinese table tennis team.

Ever since the first world championship of table tennis was won in 1952, the Chinese table tennis team has turned the foreign sport of table tennis into a national ballgame, which is a great leap forward for them to learn and practice hard in the field. It is not only the heart of the Chinese table tennis team, but also the life dogma of countless Chinese. The innovative spirit of Chinese table tennis is mainly reflected in the technical playing method and other aspects. "In the 1950s and 1960s, Japan broke the dominant position of Europe by using curveballs, and Chinese table tennis players created a fast attack method for the characteristics of curveballs, making China a strong table tennis nation. In the 1970s and 1980s, the rapid attack of straight plate and reverse glue combined with curveball in response to constant changes of playing methods, as well as the application of active curveball technology in response to two-sided pull-ups, won numerous honors for China. In the 1990s, the technology of straight board

and horizontal play injected fresh blood into the development of Chinese table tennis.” (wang zixu Feb.2018)

5.1.3 The spirit of collectivism in Chinese table tennis

The Chinese table tennis team has a strong spirit of collectivism and patriotism. Can the Chinese table tennis team dominate the world stage for a long time? In addition to the efforts of the champions, it is largely possible because they have a group of sparring partners behind them. These unsung heroes are the fundamental force in building the country. However, in the increasingly competitive international arena, Chinese table tennis players are restricted by many rules. More and more excellent players have fewer opportunities to play, it is more and more difficult to win medals in international competitions, and more and more domestic groups compete with each other. Despite this, Chinese athletes are still able to choose between their personal and national interests and win the final victory with maximum profit.

“For the 2017 ITTF World Tour China table tennis open, the Chinese team quit the competition without permission. Although complete still remember the teacher-student friendship. However, the act of ignoring national honor has greatly hurt the feelings of Chinese people towards national table tennis, which has set new requirements for the future management and development of the team.” (Ti Yuquan. 2017)

5.2 Analysis of Chinese table tennis system culture

The research on the development of Chinese table tennis system culture is mainly carried out from three aspects: table tennis sports technology, competition rules and strategic system. Table tennis technology is mainly from the change of table tennis technology to analyze the sustainable development of table tennis technology to study. The study of competition rules is mainly about the international table tennis federation considering the development of world table tennis and making some efforts to prevent the Chinese table tennis team from continuing to dominate the world table tennis world. The change of strategic system is some means for China to continue to study table tennis technology and spread table tennis technology to international friends while continuing to study table tennis technology, so as to make table tennis level in

China and other countries in the world as high as possible, but also to lead the world table tennis to continue to develop.

5.2.1 Development of sports technology

It is the same as other ballgames too, table tennis can be analyzed from both offensive and defensive aspects. However, different from other ballgames, table tennis players with different technical characteristics have different racquets. We discuss that the sports technology of table tennis cannot be separated from the types of racquets. The table2 shows the different types of table tennis racquets.

Table 2. Analysis of table tennis techniques from types of rubber racquet

	rubber type	Characteristics of the rubber	Technical characteristics
attacking	Short pimps	The rubber pellets are short and thick, free from spin, and do not produce a particularly strong spin, hitting the ball quickly	Fast break - the first three boards match serve with fast break
	inverted rubber	The rubber is smooth, soft and elastic, it can making strong rotations	Defensive - making down turns, Offensive - makes curved balls
Chopper - creates strong rotation and better to slow down the attacking players' coming rate			
defending	Long rubber	Colloidal particles are slender and have poor ability to actively make rotation	Depending on the ball's strong rotation or strong momentum to increase the rotation of the return ball

The players' table tennis technology is different, "technical type" is a very unique and important concept in table tennis. The main mark that differentiates technical type is the technical characteristic of athlete or athletic team. In the survey, I found that from the logical sequence of the project, the development of sports technology was prior to the formation of technology types, and new technology led to the emergence of new tactics and new technology types. Only when one or several major new technologies are produced can new types of technologies emerge, and the maturity of technology types requires further improvement of sports technology. For example, the invention of circular ball technology in table tennis directly led to the birth of circular ball technology type, confirming the common phenomenon of the interaction between technology and playing method in the evolution process. The development of technology level and technology type has experienced a continuous development process from simple to complex, from single to compound.

5.2.2 Competition rules

After studying the competition rules and reviewing the important rule changes of the international table tennis federation since the 1980s, it is found that under the leadership of the international table tennis federation, the development of the international table tennis movement has undergone great changes. The most important change of table tennis is that the big ball replaces the small ball and the rule of the game changed from 21 points to 11 points. Table 3 shows the main changes of table tennis rules in the past 40 years.

Table 3. changes of table tennis competition rules

	Change	Background	Content
1980s	Racket	The China table tennis team won all the MEDALS in the 36th world table tennis championships, which triggered the modification of the rules of bat and service.	The 37th international table tennis federation (ITTF) congress revised the requirements on the racquet cover and the color of the cover as well. The 38th international table tennis federation (ITTF) convention requires racquets to be red and black on both sides, and the replacement of racquets is subject to inspection by the referee and opponents.
	Serve		The 37th international table tennis federation (ITTF) congress prohibited the stomping of the serve and made rules on the position of the player and the ball on the serve; The 38th table tennis association congress abolished the rule that service cannot be stamped; The 39th international table tennis federation congress has made strict regulations on the throwing of the ball and the action of the serve.
1990s	clothing	The commercialization of sport brings	The main color of the shirt must not be the same as that of the ball.

	Space equipment	teams closer to sponsors; Sportswear has become an important part of modern clothing.	The color and size of the game equipment are specified: for example, the color of the ball is white, orange and yellow. The ball table is dark green and blue. Floor has woodiness ecru also have dark red plastic; Strict regulations have been made on the size of the number book, announcement and marking ruler.
Since the 20th century	A big ball	Fast break and curveball techniques make it difficult to see the ball. It reduces the appreciation of table tennis.	The ITTF has decided to replace the 38mm ball with a 40mm ball from October 1, 2000.
	11 point per set system	The change to the big ball makes the game time of the 21-point system extended so that Athletes and spectators are prone to fatigue. On the other hand, with the development of commercial sports, in order to obtain more economic benefits, the time of broadcast advertising increases.	The international table tennis federation replaced the 21 points system with the 11 points system, which was implemented on 1 September 2001.

	Unblocked service	The direct score on serve is not conducive to the formation of the round and the display of tactics. It will also reduce the interest of the audience and reduce the appreciation.	The international table tennis federation replaced the 21 points system with the 11 points system, which was implemented on 1 September 2001. The change of concealed service to unblocked service was introduced on 1 September 2002.
	Doubles partition	In order to prevent China from winning all the MEDALS, the world series evolved into an internal competition of the same association.	Two pairs of doubles players from the same association must smoke in the same half district.
		--	From the point of view of protecting athletes' health, a so-called "glue ban" was passed to prohibit the use of volatile glue.

The above content is a part of the author's arrangement

5.2.3 Development of strategic systems

The research on the institutional culture of the development of Chinese ping-pong is mainly analyzed from three stages: ping-pong diplomacy, Wolf training program and Wolf prevention.

(1) ping-pong diplomacy

Table tennis has a strong mass base in China, also known as "national ball". In 1952 the People's Republic of China established its own table tennis team. In 1959, Rong Guotuan won the gold medal in men's singles at the 25th world table

tennis championships, becoming the first world champion of table tennis in new China. Until the 1970s, the national table tennis team had achieved great success in various world competitions.

“In 1971, the friendly interaction between Chinese and American players in the 31st world table tennis championships in Japan became an opportunity to launch China's "ping-pong diplomacy" On April 10, 1971, the U.S. table tennis team was invited to Beijing for exchange and visit, which became a historic event to break the 22-year absence of exchanges between China and the United States. According to Chairman Mao's decision, China announced that it officially invited the US table tennis team to visit China. On April 10, 1971, the American table tennis team arrived in Beijing for exchanges and visits, which became a historic event that broke the two years of non-interaction between China and the United States. Since then, Nixon, then president of the United States, issued a friendly statement and issued a series of measures to improve Sino-US relations. President Nixon's visit to China in 1972 marked the normalization of Sino-US relations.” (Ping-pong diplomacy. 2018)

This is the famous "ping pong diplomacy." This history, known as the small ball pushing the big ball, not only improved the external political relations of New China, but also promoted the establishment of a large number of diplomatic relations. On the other hand, it has also brought about an opportunity for the development of table tennis in China. The international exchange and study of table tennis in China has laid a foundation for the future of the international arena . Table tennis culture has promoted China's diplomatic relations, which has made table tennis culture a further position in Chinese history.

(2) Wolf breeding program

In 2009, Cai Zhenhua, the chairman of the China Table Tennis Association, proposed a plan for the long-term development of table tennis with the core of the "Wolf breeding Plan" under the concept of "national ball wealth, world sharing".

“Be prepared to "go out and invite in" to help foreign table tennis players improve. Main contents include: Foreign athletes are welcome to participate in competition training in China; organize and hold international competitions and training camps for young people; domestic excellent athletes go abroad to teach, forming a group of "overseas table tennis groups" With the help of the Confucius

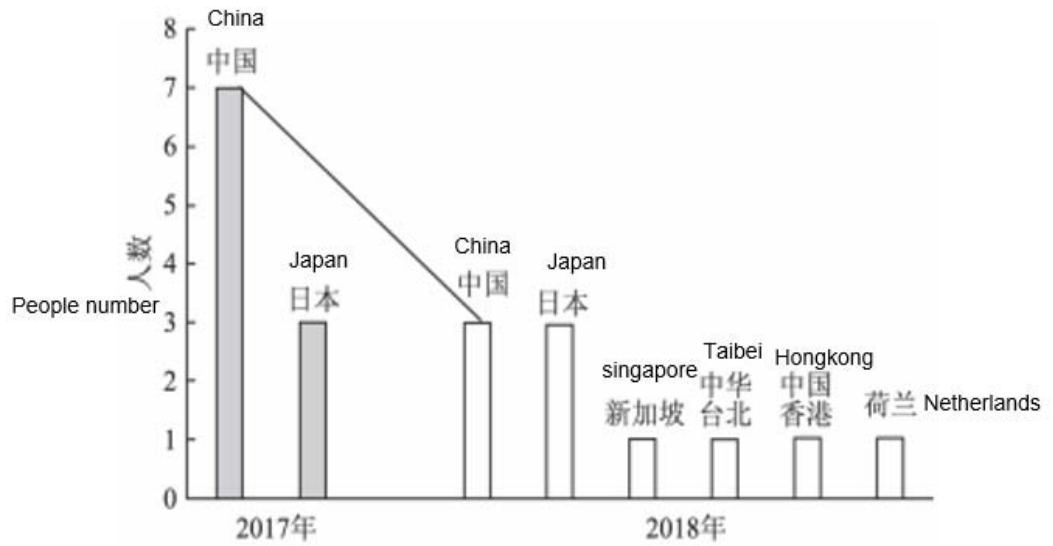
institute, Chinese started a table tennis course, developed ping-pong and promoted the spread and development of the international table tennis culture.” (Yang Wangchun & Wang Xuedong July 2015)

The purpose of the Wolf training program is to comply with international appeals, promote the healthy development of table tennis in the world and enhance the influence of table tennis. This shows the absolute confidence of Chinese table tennis. Although in this process, the Chinese ping-pong team led by Liu Guoliang still dominated the international table tennis circles with the gesture of crushing pressure. However, foreign players have achieved their own development and witnessed the continuous development and progress of Chinese table tennis.

(3) Wolf prevention stage

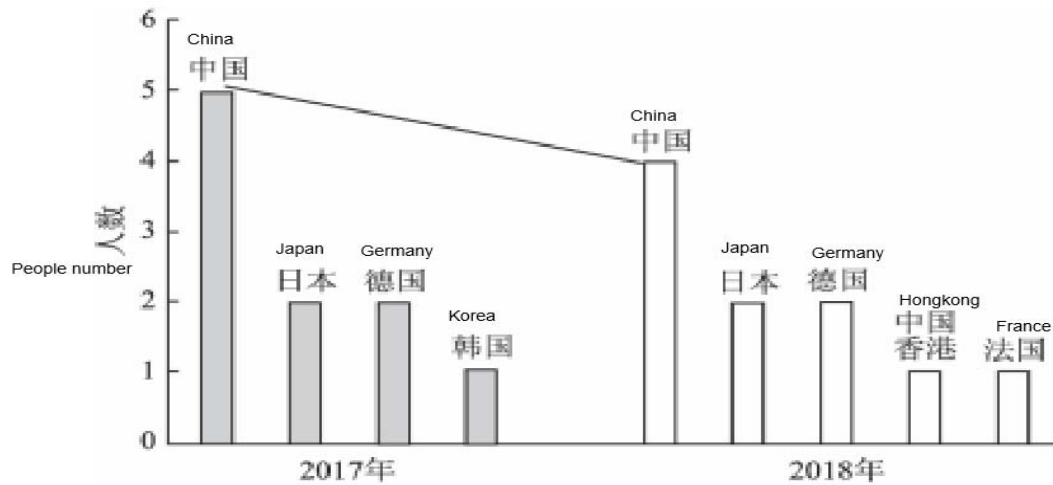
“At the end of 2017, the International Table Tennis Federation introduced new points rules that rank the athletes' best eight times in the past year as point. It also removed the ban on meeting association players in the first round of the tournament.” (Zui Tiyu. 2017,12) This will partly limit the Chinese team's ability to win MEDALS in international competitions and increase the likelihood that other countries will win. As shown in figures 4 and 5, the number of Chinese players in the top 10 in the world decreased to different degrees before and after the implementation of the new regulations. But the main competitors Japan, Germany is not big change. To some extent we can think of this as a new rule designed to avoid Chinese domination.

Figure 4. Comparison of changes in association of top 10 female athletes before and after the implementation of the new regulation



(Lan tong & He Yan 2018. 37(4),121)

Figure 5. comparison of changes in association of top 10 male athletes before and after the implementation of the new regulations



(Lan tong & He Yan 2018. 37(4),121)

In order to deal with the internal and external problems of Chinese ping-pong sport at the beginning of 2018. "The China table tennis association issued a new policy, banning all foreign players from participating in various leagues in China

and The Wolf training project was declared over.” (Zhou Si. 2018) Although the introduction of new domestic regulations has certain benefits for the future to curb foreign rivals and ease the competitive pressure of domestic table tennis competitions. But there are drawbacks. Culture is the soul of a country and a nation. Without a high degree of cultural confidence, the great rejuvenation of the Chinese nation will be difficult to achieve.

First, it is not conducive to the benign development of table tennis, reduce the communication between domestic and foreign athletes , prevent players from understanding the strength of their opponents. Secondly, it is easy to cause the foreign table tennis association to fight back, so that the international table tennis federation against China's new regulations issued new rules, the loss of the situation. Thirdly, it is not conducive to the display of China's cultural confidence. Culture is the soul of a country. Without a high degree of cultural confidence the great rejuvenation of the Chinese nation will be difficult to achieve. Sports culture and table tennis culture are important parts of Chinese culture and should be open to the difficulties of international matches. “China's table tennis and its representative "ping-pong culture" are firmly on this road forward.”

(Zhang zhang & wang hengzhi May 2018)

In addition to the above three aspects, the research on the table tennis system is also analyzed from the perspective of the national system to the dual-track system.

In response to the new regulations issued by the China table tennis association at the beginning of the year, the youth Olympic Games held in October 2018 adopted the mode of multi-national combination in the mixed doubles program of table tennis, which may be a trend in the future for international competitions to cope with the Chinese table tennis team.

5.3. Analysis of Chinese ping-pong material (environment) culture

5.3.1 Development of China's ping-pong related competitions

The main domestic table tennis events are the national table tennis championship, China open table tennis and China table tennis club super league.

“The national table tennis championship is known as the "little world championship", which is the largest and most influential traditional table tennis tournament with the longest history in China. There are currently seven events in the men's or women's team, men's or women's singles, men's or women's

doubles and mixed doubles.” (The national table tennis championship. May. 2018)

“Founded in 1988, the China table tennis open is a stop in the international table tennis professional tour series, held once a year. The event features six events: men's or women's singles, men's or women's doubles, and U21 men's or women's singles.” (China table tennis open.10. 2018)

“The Chinese table tennis club super league, formerly known as the Chinese table tennis club competition, was upgraded from the first division to the super league in 2010 and is held once a year. The tournament features a men's team and a women's team, each consisting of 10 clubs.” (Chinese table tennis club super league. 2018,10.)

The increasing number of table tennis competitions is the result of the constant development of table tennis culture.

5.3.2 Development of table tennis equipment and facilities in China.

This paper mainly introduces the development of ping-pong equipment, ping-pong ball and other instruments involved in the game. The development of table tennis racquets has experienced the development of wooden racquets - rubber racquets - rubber sponge racquets - reverse rubber sponge racquets (one rubber with particulate matter). Before the inverted sandwich rubber, ping-pong was mainly used in pushing, pulling and killing, mainly in defense, but less in attack. “After the inverted sandwich rubber, sponge bat appears, because the friction between the ball and the racket increases, causes the pull to twist the spinning technique becomes the winning skill. The later famous curveball was achieved by the inverted sandwich rubber racket.” (Liu xuezhe,2009(11))

Therefore, we can find that each progress and development of bat will bring new opportunities and challenges to the development of ping-pong, which has a profound impact on the development of ping-pong culture.

The development of table tennis is mainly reflected in the change of texture and specification. “Table tennis was born in England at the end of the 19th century, and the ball was made of cork and rubber because it was played on a table. Celluloid table tennis is the most widely used and longest used table tennis material since it became official in 1935. On July 1, 2014, celluloid balls were gradually replaced by more environmentally friendly plastic balls. Regarding the table tennis specification change, mainly from October 2000, table tennis

diameter changed from 38mm to 40mm, realizing the reform of table tennis from small ball to big ball.” (Jing wen 2014, 68-71)

Table tennis competition involved in the relevant equipment mainly: scoreboard, clock, table, ball pickup, ball box, pen, order book, MEDALS, brooches and so on. In addition to ping-pong equipment facilities, ping-pong material culture has also developed a number of derivatives. The stamp, postmark and other patterns in the world's ping-pong products have witnessed the perfection of the equipment, techniques and tactics of ping-pong. It records typical events and figures in the history of ping-pong and It is an important part of table tennis culture.

6 Table tennis culture in Chinese university

6.1 The meaning of college table tennis culture

In common colleges and universities, table tennis is regarded as an important sports teaching project, and has gradually formed the university table tennis culture mainly. The meaning of this culture is: college students gradually establish the cognition, understanding, sports related system, equipment and facilities and the whole process of forming the culture of table tennis in the process of developing the sport. Therefore, the construction of a harmonious table tennis culture can improve the enthusiasm of students to exercise, let them like and understand the culture of table tennis, and gradually establish the spirit of Chinese table tennis. College students' active participation in table tennis is an important way to enrich the culture and connotation of college table tennis and instill the spirit of table tennis from college life.

6.2 Table tennis and college sports culture

6.2.1 Table tennis promotes the construction of college sports culture

Sports club is a common organizational form in college sports. Through the online survey of 13 universities in GuangZhou as the respondents, each school conducted a questionnaire survey of 5 students. Due to the high interest of ping-pong, many college leaders or sports fans usually set up ping-pong clubs on their own to guide students to learn ping-pong independently. With the increase of students' enthusiasm for table tennis and the improvement of table tennis facilities, college table tennis has become an important item of most students' physical education elective courses.

6.2.2 Table tennis culture is an important part of college sports culture

Carrying out table tennis can improve students' competitive consciousness and build up a high-quality table tennis team. Advanced sports culture can guide college competitive sports to develop effectively and hold various competitive sports activities. Positioning the direction of campus competitive culture is conducive to creating a united, cooperative, healthy and harmonious campus cultural atmosphere, helping students build up self-confidence, improve their

enthusiasm to participate in table tennis and promote the further development of contemporary college table tennis culture.

6.3 We should increase the development of table tennis in China, learn from the NBA model, realize the integration of table tennis competition and entertainment culture, and develop table tennis sports culture

Using my knowledge, Chinese table tennis culture should refer to the NBA model to develop vigorously in the world. The combination of entertainment culture and competition is the trend of sports industry development. The mode of integrating entertainment culture and sports competition created by NBA with a history of more than 50 years has provided us with good enlightenment:

1 In NBA games, the audience can not only enjoy the wonderful and intense high-level basketball game, but also see the colorful artistic performances during the game suspension, the rest between the games and the halftime break, as well as the gifts from the host party.

2 The annual all-star game and the basketball summer camp during the interseason make basketball activities become a festival for people, especially the entertainment of the majority of teenagers.

3 Moving the preseason to another country at the start of each season helped spread this native American culture around the world.

This sport and ball culture has been unprecedented development and produced a far-reaching impact in the world, but also promote the popularity and development of the game in the world. As China's "national ballgame", the biggest influence of table tennis is still mainly concentrated in the field of competition, and its entertainment culture is still immature. Sports is originally a kind of physical game, no matter what functions it may derive in the course of history, it cannot get rid of this fundamental attribute. The "alienation" of competition has caused people's fear and boredom of this sports subculture. Pure competitive sports culture cannot swallow up other sports subcultures. On the contrary, its development needs the support of education culture of sports and entertainment culture more. As China's "national ballgame", its cultural development trend should be the integration of competitive culture, healthy body and mind culture and entertainment culture. Only in this way, table tennis can be truly sustainable development in China, and in the world wide spread and healthy development. "National ballgame" will be like "national essence", "national treasure" as the real wealth of the Chinese nation.

7. Conclusions

As a cultural form, table tennis has been widely concerned by all sectors of society. Table tennis as a sport has been more and more people are familiar with and participate in. With the improvement of people's living standard and the enhancement of their awareness of physical fitness, there are more and more studies on sports culture. The study on the development of table tennis culture is an inevitable requirement to promote the development of table tennis. Digging out the culture of table tennis plays an important role in improving people's understanding of table tennis. It exists in the world sports culture in the form of material and spiritual. Although table tennis culture is relatively small compared with other types of culture, its functions are extensive and huge. It is necessary to strengthen the research and construction of ping-pong culture. Of course, any culture is changing and developing, and table tennis culture is no exception. Therefore, we should adhere to the principle of keeping pace with The Times, inheritance and innovation, and promote the comprehensive, coordinated and sustainable development of table tennis culture.

Based on the analysis of the development of Chinese ping-pong culture, the following conclusions are drawn:

In the research of spiritual culture, our ping-pong culture is always closely related to patriotism and collectivism. As a national ball, table tennis played an important diplomatic role in the early years of the founding of new China. Through the small ball, the development of the big ball has been promoted and made important contributions to the development of politics and sports in China and the world. Therefore, ping-pong culture is deeply involved in patriotism, nationalism. The whole nation system and the national team have shown that the ping-pong culture is not a single sport. Its development cannot be achieved without the support of the country, the people and its teammates. Therefore, the development of table tennis in China cannot be separated from the study of collectivism.

In terms of research on institutional culture, by analyzing the development system of ping-pong in different stages, it is found that the development of ping-pong sport and culture in China always adheres to an open and positive system. Whether it is the initiative to invite American teams to China for communication in the stage of "ping-pong diplomacy" or the "Wolf breeding program" proposed to promote the better development of world ping-pong sports and culture. These all

reflected our country in the system for the development of ping-pong movement made important help. New notice seen as wolf prevention program, seen by outsiders as a "Wolf prevention program," limits foreign players to some extent from playing in China's table tennis super league. But that is nothing wrong with journalists commenting. Because the Chinese table tennis super league is a domestic competition. China does not restrict foreign players to study and train ping-pong technology in China.

In terms of material culture, this paper mainly introduces the development of balls, racquets , related equipment directly related to table tennis and table tennis technical type. To further understand the world and the development of Chinese table tennis has a certain role. The use of environmental-friendly materials indicates that ping-pong is no longer a sport created solely for competition. In the development process of table tennis, the attention to athletes and people is gradually increasing, and the people-oriented spirit is clearly demonstrated.

In the study of the integration of table tennis culture into college life, table tennis culture occupies a high popularity rate in college sports culture in China, which also lays a foundation for the sustainable development of table tennis culture in China.

On the whole, the development of ping-pong culture in China is highly consistent with the "cultural confidence" that China has always advocated and now called for. For the better development of our country's ping-pong culture and ping-pong sport. We need to further enhance the cultural consciousness and cultural confidence of ping-pong project.

8 Research deficiencies and prospects

8.1 Under- research

Due to the hasty preparation time, the research on the material, system and spiritual culture is one-sided, and the research scope and depth are not enough. I hope that more people can be engaged in the research on Chinese ping-pong culture in the future study and life. It can analyze Chinese ping-pong culture from an open perspective and participate in the development and construction of Chinese ping-pong culture in different forms.

8.2 Research prospect

In China, table tennis is deeply loved by the masses, and future research on table tennis culture should be combined with the guidance of China's cultural construction to promote the sustainable development of table tennis culture. To continue to write the legend of Chinese ping-pong sport, establish ping-pong culture confidence, and at the same time to promote the vigorous development of ping-pong sport in China, play a greater influence. The research prospects of Chinese ping-pong culture are as follows:

First, the future research on Chinese ping-pong culture should be strengthened. A country or nation without culture is soulless, and a sport without ping-pong culture is just an empty shell. Therefore, we must pay attention to the study of table tennis culture so that "national ball" culture in China long - lasting.

Secondly, the research on ping-pong culture should not be limited to the profound inheritance and development of ping-pong. In the future, relevant research can adopt different methods from different perspectives and open up new directions for the research on ping-pong culture in China with a broader vision and innovative spirit. For example, the research on the spread of ping-pong culture, the table tennis champion and the fan culture under the Internet.

In terms of research methods, more methods of qualitative and quantitative combination and comparative analysis are used to provide practical basis for the theoretical research on the culture of table tennis, which makes the theories more abundant and reliable, and is more persuasive and feasible when guiding practical problems, so as to achieve the combination of theory and practice.

Third, I hope that some people can realize that the NBA can be used as a template for the development of Chinese table tennis in the world, just like the NBA, and spread the spiritual culture of Chinese table tennis in the world.

Fourth, as the "national ball" of our country, the development trend of table tennis culture should be competitive culture, education culture of sports, fitness culture and entertainment culture fusion. Only in this way, table tennis can be truly sustainable development in our country, "national ball" will truly become the wealth of the Chinese nation, but also in the world's popularization and healthy development. Based on the strong foundation of table tennis school, affiliated sports university, and even create table tennis college graduate school, not only do sports, to increase enrollment, formed the scale, and make theoretical research, extension, to carry forward, sublimation table tennis culture, make the sublimation of accumulation for a "table tennis spirit", "table tennis spirit", to support the table tennis sports sustainable development.

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Questionnaire:

Table tennis culture survey in college campus

- 1, What's your sex?
 - A. Boy
 - B. Girl

- 2, How well do you know table tennis (history, development and current situation, etc.) as the national sport of our country?
 - A. Very Well
 - B. Know
 - C. understand a little
 - D. Not at all.

- 3, Have you ever learned table tennis before?
 - A. Yes
 - B. No

- 4, Do you find time to play table tennis at school?
 - A. Yes
 - B. No

- 5, Do you care about table tennis?
 - A. Yes
 - B. No

- 6, Table tennis culture as a branch of sports culture, do you think it can demonstrate cultural confidence?
 - A. Yes
 - B. No

- 7, Do you know the spirit of table tennis in China?
 - A. Yes
 - B. No

- 8, Do your school leaders or associations often hold campus table tennis activities?
 - A. Yes
 - B. No