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**RESEARCH ARTICLE**

**WHY ARE THERE FOUR SEASONS IN NATURE?**

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**ABSTRACT**

Earth's seasons are characterized by differences in temperature and day length. Four different seasons spring, summer, autumn and winter that are exist only in temperate zones. These zones are widespread between latitudes 23.5 degrees of North (and south), 66.5 degrees of North (and south). In tropical or subtropical regions there is no significant seasonal changes and there are only two seasons, wet and dry seasons. Polarize zones have just two seasons, light and dark seasons. We will start our research on this topic and would like to say that there is symmetry between different temperatures. It means that the temperature that creates the spring is the same as the temperature that creates winter and our planet earth has only one season that in temperate regions, it is divided into four seasons and these four seasons emerge in the quantity of a quarter 1/4. Among the nine planets in solar system, only in the planet earth there is symmetry between the sun heat and the frigidity that we will show this symmetry in our planet earth with a simple equation.

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**INTRODUCTION**

Season is one of the laws of nature and that is created by applying two simple rules of mathematics.

The first rule is fusion phenomenon of number two. Between natural numbers only the sum and the product of number two is equal four.

$$2 \times 2 = 4; 2 + 2 = 4$$

The range of season starts from fusion phenomenon and nature uses this phenomenon to create season. If this phenomenon did not exist, it would be impossible to establish season. This amazing mathematics' phenomenon of number two first start from the sun.

$$\text{Light phenomenon} = 2^2$$

The second rule that is related to the season phenomenon is as follows:

Any number divided by itself is equal to one.

This rule applied in space. Planes in solar system are rotating around the sun to create the season; in fact they are divided by themselves. The goal of this rotation is creating season and in each planet the result of this rotation is a season.

Only in the planet earth, the season is creating by symmetry. It means that the heat and the frigidity are in symmetry. Between the nine planets in the solar system, planet earth is in the position of exception and because of its position in solar system, it receives symmetry. The goal of this study is that whenever we discover nature's laws, it opens a way to a better life and the ultimate goal is making life better. In this article, the reader is faced with a new topic that is, there is only one season in our planet. This season in temperate regions under symmetry between the heat and frigidity, are divided into four and create four seasons in the range of a quarter. The important thing in this study is that, there is symmetry between the heat and the frigidity in our planet.

**MATERIALS AND METHODS**

The method is mainly focus on experience and the way we look at things and sometime reading book, paying attention to Iranian calendar and also going to the sites that are related to physics. Hijre calendar that is used by Iranian is completed by Hakim Omar Khayam in 6 Mars 1079 AD, which is known as Jalali calendar, this calendar is more accurate than the Gregorian calendar because its inaccuracy per 3770 years is only one day and the Gregorian calendar's inaccuracy is per 3330 years. In Iran, the season cycle applied with precision that setting one of the most accurate calendars become possible and season phenomenon may be related to the Iranian calendar because mathematics of this law is properly implemented in Iran.

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We should note that how seasons start and how they end. (Beginning and ending are the same). Every year, the first day of spring is the new year of Iranian and Iran is a place where every four seasons are repeated precisely and make its calendar. Now the mathematics that makes the Iranian calendar makes the season law and this law lies in Iranian calendar.

I am pleased that I understand this mathematics law and I did not do any further research except receiving the joy from nature. If this joy lost everything fades and we cannot reach the destination. Understanding of this law with an empirical sense that comes from mathematics encourages me to compile this law. It is always a sense of joy and experiment that comes from mathematics leads to new discoveries in physics. For this reason I believe that this work is a new discovery. In nature the mathematics commitment is creating season and creating season means creating range. This range identifies by mathematics and by this we can understand all concept and measurements that are necessary in physics.

Mathematics identifies each season as a quarter ( $\frac{1}{4}$ ) and this phenomenon starts in the sun with a source of light. Season is a phenomenon that forms by applying two simple rules of mathematics. The first rule is fusion phenomenon of number two. Between natural numbers only the sum and the product of number two is equal four.

$$2 \times 2 = 4; 2+2=4$$

The range of season starts from fusion phenomenon and nature uses this phenomenon to create season. If this phenomenon did not exist, it would be impossible to establish season. This amazing mathematics' phenomenon of number two first start from the sun. Studies about heat process and the sun energy were done by Hans Alberich Bethe. In 1939 he discovered that the sun energy is produced by changing four hydrogen atoms into one helium atom. He understood that the process of producing heat in the sun starts from the core of the sun. In this area four hydrogen atoms, under the pressure, changed into one helium atom and whenever four things changed into one thing only a quarter ( $\frac{1}{4}$ ) of that thing continue its existence in a symmetrical and active cycle. This quarter ( $\frac{1}{4}$ ) is a source of light in the sun. The fusion phenomenon in the sun is used to create range and light season. In algebra the equation is as follow:

$$\text{The light phenomenon} = 2^2$$

For creating balance in space the season must be created and mathematics is active to create season and range.

#### Analysis of data

In nature the mathematics commitment is creating balance, but whenever symmetry occurs, it causes an exception and for this reason the planet earth in solar system in its arrangement receives a symmetry and placed in the position of exception, because a symmetry occurs between the sun heat and the frigidity in our planet and this symmetry does not happen in other planets.

This symmetry creates a season cycle, a water cycle and a rainfall cycle and activates a water fountain in the planet earth. In mathematics order, in solar system, the sun is the first season, the Mercury is the second, the Venus is the third, the Earth is the fourth, the Mars is the fifth, the Jupiter is the sixth, the Saturn is the seventh, the Uranus is the eighth, the Neptune is the ninth and the Pluto is the tenth planet.

Pay attention to this simple issue that because of this arrangement that occurs in our planet, the sun light is in the range of a quarter ( $\frac{1}{4}$ ), which is obtained from the  $2^2$  equation and this is a season. The first season in solar system creates when the sun light glitters into the planets and the number of symmetry in our planet is obtained as follows:

$$\frac{1}{4} * \frac{1}{1} = \frac{1}{4} \%25 \quad \text{Birth of a season in the sun}$$

$$\frac{1}{4} * \frac{2}{1} = \frac{2}{4} \%5 \quad \text{Birth of a season in the Mercury}$$

$$\frac{1}{4} * \frac{3}{1} = \frac{3}{4} \%75 \quad \text{Birth of a season in the Venus}$$

$$\frac{1}{4} * \frac{4}{1} = \frac{4}{4} = 1 \quad \text{Birth of a season in the Earth}$$

$$\frac{1}{4} * \frac{5}{1} = \frac{5}{4} = 1.25 \quad \text{Birth of a season in the Mars}$$

$$\frac{1}{4} * \frac{6}{1} = \frac{6}{4} = 1.5 \quad \text{Birth of a season in the Jupiter}$$

$$\frac{1}{4} * \frac{7}{1} = \frac{7}{4} = 1.75 \quad \text{Birth of a season in the Saturn}$$

$$\frac{1}{4} * \frac{8}{1} = \frac{8}{4} = 2 \quad \text{Birth of a season in the Uranus}$$

$$\frac{1}{4} * \frac{9}{1} = \frac{9}{4} = 2.25 \quad \text{Birth of a season in the Neptune}$$

$$\frac{1}{4} * \frac{10}{1} = \frac{10}{4} = 2.5 \quad \text{Birth of a season in the Pluto}$$

As you see number 1 is not obtained by accident rather the season phenomenon starts and finishes with a symmetry which creates a season cycle, a water cycle and a rainfall cycle and it activates a water fountain in the planet earth.

In fact planet earth has one season. They are spring  $\frac{1}{4}$ , summer  $\frac{1}{4}$ , autumn  $\frac{1}{4}$ , winter  $\frac{1}{4}$ , it means that season is starting constantly and its end means beginning. In some areas of planet earth like my country Iran every four seasons are created. The spring starts with the sun heat and winter ends with cold (the level of beginning is the same as the level of ending). For this reason season is active in its quantity of a quarter  $\frac{1}{4}$  and always reaches itself. In nature the work of mathematics is making things refresh and the season phenomenon should always be fresh and new and does not exceed from the initial range. In nature mathematics always begins. There is also the case for rainfall. Water evaporates through the sun heat from the surface of the sea and enters into the space then the vapour is changed into the water again through cooling process in the space and returns to the ground.

The level of the heat that evaporates the water from the surface of the sea is the same as the level of frigidity that changed the vapour into the water in the space and this is the point that makes the other planet different from the planet earth. In planet earth the level of beginning and the level of ending are in symmetry. If this symmetry between the sun heat and the frigidity in space did not exist for season and water cycle, the season and water cycle would not be created. As we said before the mathematics commitment in nature is making things fresh and mathematics does this by a simple division. This is the second rule in creating the season. The rule is any number divided by itself is equal to one.

This division occurs in space and constantly making the season phenomenon fresh and new. This is the prettiest rule in nature for creating season. The planets in solar system, when they are rotating around the sun are divided by themselves to create a season. This division leads to obtain number one and during a year the earth completed its rotation around the sun and creates one season. The season is nothing but the temperature difference that season characterized by it. In planet earth there is symmetry between temperature differences. Part of the sun and part of the frigidity in space for creating season in space divided by themselves and created a season from the sun heat and the frigidity inside themselves. There is such situation in other planets but the point is that the seasons which are created in other planets are not real whereas season in planet earth is real.

## Conclusion

Season is the result of mathematics works in nature and mathematics is the law for human that leads to happiness, revival and welfare. The biggest happiness is the happiness that derived from mathematics. Every action that starts with mathematics has a good end. In mathematics the life is always starting and the meaning of living is making things to live. The source of mathematics for human is affection and human without feeling is not able to understand mathematics. Welfare happens when the human feeling is under the training of mathematics. In nature there is no weakness and lassitude so season is the nature's attitude for beginning and from season we understand the meaning of movement. Renewal in space is a general rule that must be happen. This is one of the rules in nature and planets. Creating season establish freshness and this freshness fixed by season. Architecture and method of mathematics in nature is based on a quarter<sup>1</sup>. Season occurs in our planet according to the symmetry between the sun heat and frigidity. A season divided into four seasons and by progressing a quarter four colourful seasons are born.

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[www.parssky.com](http://www.parssky.com). About Iranian calendar which is completed by Hakim Omar Khayam in 6 Mars 1079 AD. This calendar starts with the first day of spring and set on season cycle. Studies about heat process and the sun energy were done by Hans Albercht Bethe, In 1939 he discovered that the sun energy is produced by changing four hydrogen atoms into one helium atom. He understood that the process of producing heat in the sun starts from the core of the sun.

Do you know why the sun rises every morning in the sky and other questions about time and seasons, Walpole Brenda Earth in space (solar system), institute of Geography and Cartography Earth and space, Mayes Susan

This book is about time, Marilyn Burns. Page nine of this book is about why the seasons are created and page nineteen is about which calendar is the most accurate one. The Iranian calendar is the most accurate one (Walpole Brendu). He wrote that in this calendar the New Year begins when the length of the night and the day at the beginning of the spring is equal. This moment is called spring equinox and the distance between two spring equinoxes is considered as one year. In this distance the earth rotates one time around the sun. This rotation considered as a real year (natural year). Because the beginning of the year considers as a natural a natural phenomenon, the Iranian year never displace from its actual place. On page nine of this book, he wrote that seasons are caused by the way the earth rotates around the sun. This rotation takes one year. The earth is tilted and during its rotation around the sun, first one of the poles and then the other pole tilted toward the sun and this phenomenon creates the seasons.

The season subject is a field work research. The place where I live all four seasons are born alternately. Harmonies and tunes of this phenomenon, not only related to mathematics, but also related to poetry and music and Omar Khayam, who studied about this subject and set Iranian calendar, was a poet and the researcher Edward Brown who translated Khayam poetry from Persian to English said Khayam poetry is the life philosophy.

I (Gholam Abbas Torabi) did some searches in this area and I wrote a book with the subject of mathematics and nature that was about mathematics and seasons. I (Gholam Abbas Torabi) sent one volume of this book to NASA library, which is located in Washington DC, the library principal at that time, Andrew Pedrick, wrote a thankful letter in return.

This book participated in the World Academy of Art Literature and Media and reached the final. This academy is located in London and its manager is Prof. M. Dorbayani.

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