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**RECOVERY OF MODERATION BASED GEOMETRY BASED ON THE CONCEPT OF  
PEACE AND JUSTICE IN ISLAMIC ARCHITECTURE**

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**ABSTRACT**

Principles and standards of Iranian architecture is based on moderation and anti-violent geometry lean religious concepts of Islamic Iran have major role in architectural design and the fundamentals of the moderation forms, rational forms especially cubic rooted in the sacred temples of different religions, especially Muslim's, Kaaba (Ka'ba) by relying on direction moderation and equality has lean concepts of moderation forms to create geometric structure to complete role of justice and rationality in moral and religious relations. Undoubtedly, the use of moderation based forms in structure of square that is the symbol of wisdom and purity and refers to the unity and justice and is the main principles for anti-violence and holy construction that was in former Iranian Islamic architecture. Qiblah or Kaaba, by referring to cubic form or square form that has been Sacred in former architecture, refer to nature of rationality and avoid frivolity in patterns of Islamic architecture.

**Keywords: Moderation, moderate architecture, cube symbol of rationality, moderate geometric cube, moderation based geometry.**

**INTRODUCTION**

Certainly, concepts and principles of Islam are based on moderation in the affairs, Iran's religious and moral teachings of Islamic civilization rely on prevention of extremes and wastage in life and interactions. Also,

review of proving the legitimacy of Islamic government based on justice and religious brotherhood are possible in different aspects. This paper examines the concept and scope of moderation and justice in architecture.

Moderation serves as an index for organizing human affairs and acts like alignment to measure Islamic rationality and moral. If human life is based on justice and rationality undoubtedly provides platform for peace, stability and security. This is the aim to establish international headquarters of moderation and reconciliation that comes from the pure Islamic definitions that covers foundation of interactions and between human's inner and outer relations. Also explanation and interpretation of Islamic doctrine of moderation will be the most important and most basic form to promote geometric and moderation based architecture.

### **The concept of moderation**

Moderation comes from justice it means moving between two things in terms of quality and quantity and establishes proportionality between them. As the days and nights are same size in fall and spring and we call them spring and fall moderation. The Persian translation of moderation is moving in between things which refer to avoiding extremes in everything. Moderation literally means respecting mediocrity between two things. From the quantity and of the quality of the balance means the quantity, weight, quality and quantity is equal and equity for reasons. The moderation is called moderation between heat and cold

and the mean between drought and humidity. But the most important aspect in moderation is its opposition to extremism and radicalism.

### **Dictionary definition for moderation**

Moderation has two roots, one root from justice and one from sense of balance. If we see moderation from justice root with *eyne fathe* we mean putting an object in his position but, we have justice with *eyne kasre* that with it means moderation. So we have two meanings for Moderation:

1. It means justice
2. It means Balance, similarity and equality

The median nation, the nation that is not extremes in any matter and all things are in moderation. Islamic nation is a moderate nation and god refers to Muslims as moderation nation:

وَكَلِّجَعَلْنَاكُمْ أُمَّةً وَسَطًا لِتَكُونُوا شُهَدَاءَ عَلَى النَّاسِ وَيَكُونَ الرَّسُولُ عَلَیْكُمْ الشَّهِيدَ؛

As already put you in the middle of your nation and the people bear witness moderation between extremes (Surat al-Baqara, verse 143)

These nations, a nation that the basic principle of moderation in all things and all works and hence people are examples:

You were the best nation that has been created for the benefit of human beings. Justice and equality in the Quran is interpreted in installments and are among

teaching objective of Quran. Qur'an to the Prophet (PBUH):

قَالَ مَرَّ رَبِّي الْقِسْطُ؛

Say: My Lord has commanded justice (Al-Araf, verse 29)

It also ordered the believers:

يَا أَيُّهَا الَّذِينَ آمَنُوا كُونُوا قَوَّامِينَ بِالْقِسْطِ شُهَدَاءَ لِلَّهِ؛

O you who believe try to set up justice and equality and be witness and testimony to Allah (Surah Nisa, Verse 135)

As God is righteous be his witness by administration of justice, in Islam, justice is associated with filing in installments and goodness.

إِذَا لِلَّهِ بِمُرُءٍ بِالْعَدْلِ وَالْإِحْسَانِ وَإِيتَاءِ ذِي الْقُرْبَى؛

God orders justice and goodness and forgiveness and relatives (Surah Nahl, verse 90).

Imam Ali (pbuh) also said: We have middle position, backwards should join us and militant extremism should come back to us (Nahjolbalaghe; the wisdom 70).

Indigenous training is temperate education, wise education is based on moderation in all things and avoids the excessive demands of reason and moderation in all aspects of extremes is due to ignorance, the best educational system is a system in which neither hopes nor fear rule in them. As Imam Ali says:

خَيْرُ الْأَعْمَالِ عَدَالَةُ الرَّجَاءِ وَالْخَوْفِ؛

The best things are Moderation between hope and fear (Ghrralhkm, vol. 1, p. 355)

### Factors of exiting from moderation policy

In general moderation is known as moral and logical action and even new ethics considers moderation reasonable, however, two factors that can serve as the reason for the withdrawal from moderation include:

A. Ignorance: A man who is ignorant dose extremes things.

B. Sensualize: someone who follows his sensual desires is experiencing extremes.

Quran says: (Surat al-Kahf, verse 28)

وَلَا تُطِعْ مَنْ أَغْفَلْنَا قَلْبَهُ عَنْ قَوْلِنَا فَتَابَعَهُ وَتَذَكَّرْنَا إِنَّهُ لَكَاَنَّا مِنْ هُمُورًا

Iran's supreme leader comments on Imam's thoughts on moderation:

His school is a complete package. A set of dimensions, we should see these dimensions together. The two main aspects in the school of our great Imam are spirituality and rationality dimension and there is third as justice.

### Concept of rationality and moderation in Islamic thought

Recognition of the concept of reason in Islam plays the most important role in the definition of rational education based on Islamic pattern; the concept of reason in rational aspect divides into three categories:

A. fundamental reason: An understanding of the philosophy of life and human relations with the world and God

B. Rationality of values: responsible for architecture of value system and setting of appropriate human morals.

C. Instrumental rationality: Engineering, measure, predict and regulate human livelihood calculations to achieve material well-being, economic prosperity and the prosperity of the world. The first and last in common term of the Islamic philosophy is called theoretical reason and middle part of practical reason.

Theoretical intellect has another philosophical term. Theoretical intellect of understanding all the concepts and mental qualification and practical intellect will source and perceptions heart that the existence of two terms for the theoretical and practical intellect in of the Islamic philosophy in the definition of their two sentence. This division relates to the degree some intellect, some observers' intellect to believe the first division is reasonable terms, in terms of absolute philosophers Avicenna and his followers both the first group mentioned in the definition of theoretical reason or faculties have been called, practical intellect means are used as rational faculty and infinitive verbs.

### **Truth of rational geometry in architecture**

Geometry in three levels if world is absolute the world of intellect, imagination and the material world. He imagined the geometry of in universe intellect about intellectual essences absolute worst times is the emergence of forms in the material world. In the Matter of quantifiable objective will be to prepare the soul of man is Ikhwan al-Safa end geometry for thought in truths and to join ascension to heaven heavenly intellect and eternal life. In the Islamic cosmology, triangle, square and circle are not mere shapes but essentially contain the truth of the person's understanding of the universe and eventually lead to Truth. in view of cosmology, spot is secret of a creator and a secret two divine intellect triangle, square breath Password Tuesday, password natures four and four and the four directions, the four quadrants of the universe, the four seasons, the four gates of the cube, object code, directions Six children and six branch move up, down, back, forward, right, left. (Rene Genon, 2003, page 165)

Forms and geometric shapes in art and traditional architecture, though always functional and practical architectural and material to the object, and thus give order, But something more than mere industrial arrangements and meet other performance

and are even more important that Indeed are reminiscent of spiritual principles and foster a sense of unity to the people through their symbolic aspects while is also conformance with inner states of man. The use of geometric patterns and mathematical patterns in of the Islamic art represents the ubiquity of God. Geometry is secret through the creation of the universe and expression of unity in cycle. All the various components of the order and the perfection of beauty, geometric patterns, and arabesques flows based on the geometric center of the circle and a reminder of the existence of God is everywhere present in the endless creation to show off. Because god says:

فَاترِيفِيخَالِقَالرَّحْمٰنْمِنْتَفَاوْت؛

You cannot see a flaw in the creation of the Merciful (Al-Mulk, verse 3).

### **Geometric secret of cube in Islamic Architecture**

In Islamic tradition, the cube is associated with mystery of the Kaaba. Square and cube on Iranian architect, is not a mere square but the key to consistency and perfection and reflecting the heavenly temple square that Kaaba is its earthly picture. Cube, by denying six directions focuses on center, refers to the unity inherent in their form. Cube shape in architectural secrets refers to the first stone of building or base stone which is placed at the

lowest point of the building and the whole structure relies upon it and cause stability and strength. Two essential characteristics of squares and cubes, static and stability and makes square and cube the most appropriate for the setting up of structure which is set to be a symbol of stability. Cubic forms and consequently square consider all religions believe in the supernatural mystery of matter and the world of the senses and the interpreted world embodiment. (Ardalan, 27: 2002)

### **Quadrature of the Circle the secret of conformity of Cube with Sphere**

In all the traditions spherical shape, displays all features that emerged during a cycle. In the Islamic tradition rounded shape or light to light the soul is interpreted as eternal and belongs to the realm of fine appearance therefore, the perfect spherical shape or form corresponding in geometry is flat. That circular, which represents cutting Sphere with a plane surface in each direction, will never be realized in the physical world and material (162: Genon, 2006). Traditional architecture can be considered as a source of fundamental turning circle to square the triangle. Square, embodied the highest form of creation in the earth, while the circle in the sky is representative of the quantity, quality and the representative from the triangle

which guarantees both aspects are being integrated. Square land is a base that reason is working on it to integrate what is in the earth in the circle of the sky and bring it to total position. Sphere, the key to expression of infinite space cycle (162: Genon, 2006).

### **Cross or sun wheel geometry centralized application icon**

Iran's ancient cross symbol with many meanings, such as the sun, good fortune, gear

seal the four elements fire, spirit, life cycle and represent nation of Iran. Chalipa is relationship between the circle and center of square. From starting point and with a line on the circumference of a circle and divide it creates four orders. Irregularities in the gardens Chaharbagh of Iran, as Iran is visible. The vertical axis represents the path connecting the two axes emphasis on the material and meta-material.

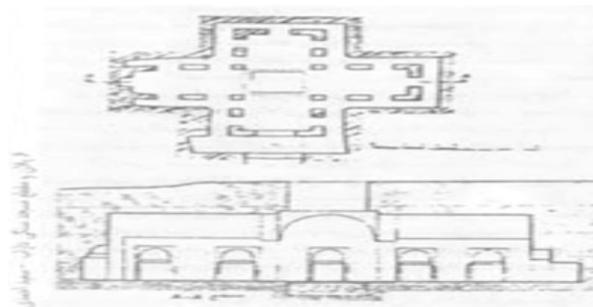


Figure 1: Plan view of the mosque crosses Darab, art book of 2006, Page 55

Plan Darab Rock mosque, the mosque in the center pond with a square plan, which has finally been dug parallel to the Skylight ceiling of the mosque as a monument Sassanid Persian literature often know (free, Mitra, 1384).

The most important common factor in the development of Chalipa various reasons, movement and transition, especially at the level of abstraction and movement From material to the importance of the center and the axis connecting the two worlds when and God's house. The status and importance of this symbol has long been associated with the sacred elements. The initial temples form is

similar to the Chalipa and center on the water that the concept of transition by moving along the axis of symbolic communication in particular reveals that the fluids of limitations solid form less than supportive of this approach.

### **Cube symbol of stability and rationality**

Cube over the square represents stability, peace and stability of the rotational motion. it is located in space in three dimensions even Plato reveals beautiful square in the absolute sense it is the same as that of Abu Yaqub says:

Four is one of the most complete digits; four is digit of intellect and the number of Alah's

letters and four means the divine perfection and in a broader sense digit refers to the deployed and organized worlds. This movement begins from point to living by going to the main four, makes cross. Quarter circle symbolizes the earth against the sky and the other surface symbol of the created world and the creator of heaven and earth to create un-transcendent world as well as static and stability-oriented form the sides and angles of emotional face of repose, strength, illumination, perfection. However, when one of the sides of the angles of this shape is curved, so the result will look amazing. Four equal sides of the square can be a symbol of four elements: wind, water, earth and fire or four directions North, South, East and West or Four Seasons or four phases of life from childhood to young and middle-aged and aging or four tempers cool, warm, water and moisture.

#### **Kaaba of Zoroaster symbol of unity and rationality in the Iranian plateau**

Zoroaster Kaaba stone building in the village square and stepped on the campus of Naqsh-e Rostam Zangiabad city near Shiraz in Fars in Iran. The distance is 46 meters overlooking the Kaaba of Zoroaster and the Mountain of Mercy and exactly opposite the tomb of Darius second that is in the form of cube and only one entry is made of white limestone building materials and its height is about 12 meters that by considering the triple stairs is 14 meter and sides of each base is 7.30 meters long. Its entrance gate goes to room by thirty stone steps.

Pieces of stones are rectangular and have been put together without the use of mortar. The size of the rocks is different from 2, 90x2, 10x0, 48 to 1, 10x1, 08x56 meters. This place was called BoneKhane in the Sassanid period. And the local name of this place was trumpet home or timpani home. They called it Kaaba of Zoroaster from about the 14th century.

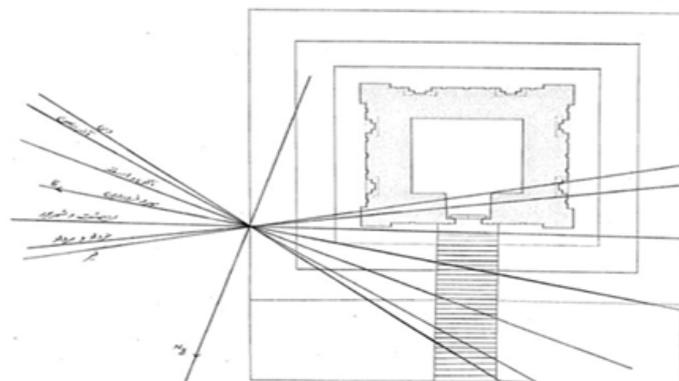


Figure 2: Plan Kaaba of Zoroaster, Naqsh-e Rostam Observatory, 1999



Figure 3: Kaaba of Zoroaster, the Zoroastrian calendar, the ancient monuments of Iran and Qibla, 1999

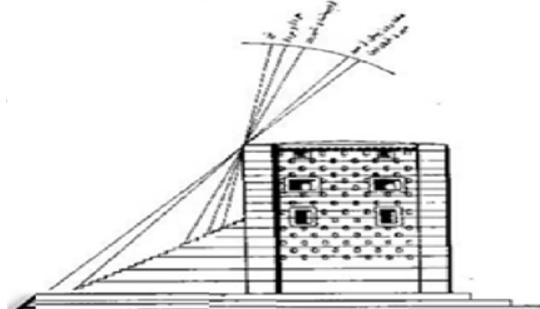


Figure 4: The angle of the sun relative to the Kaaba of Zoroaster, Naqsh-e Rostam Solar Observatory, 1999

The word Kaaba was carved in its walls. In Zarathustra books it was mentioned that he use to pray here.

It has been told that Zoroaster calculates the day of New Year in this place. New Year's starts with first day of Favaridin and he said every 700 years New Year starts from Iran. In 2008 started from Paris and Brussels, 2009 from Toronto and New York and in 2010 from a place between Alaska and Hawaii. (Iran's ancient monuments and prayer, the Zoroastrian calendar, 1999)

#### **Kaaba, the symbol of wisdom and unity in Islamic architecture**

Kaabais oldest and most temple of God and is the most popular that is in Maca in the land of Hijaz And Muslims every day for various

religious rites and rituals of Hajj and Umrah monsoon to communicate with it around the Kaaba, the sacred mosque is surrounded by a place called Masjid Al Haram that added to sanctity of this place. Kaaba, Masjid Al Haram and the sacred places are around Maca, it is an irregular square shape, its length is 12 meters, width of 10 meters and a height of 16 m. Kaaba, the sacred place in Islam which can be compared with a temple is usually called Baitullah And in fact the property is the house of God. it must be remembered that the Holy Temple in Jerusalem was considered the same way home to God. Like the Kaaba, the cube-shaped (Titus Burke, Principles of Islamic Art, 2002).

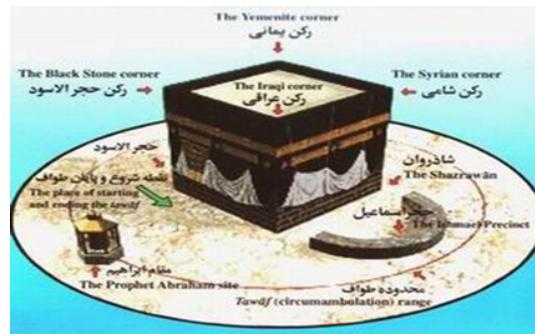


Figure 5: Components orientation towards Qibla directions, made a pattern of prayer, Reference: H. Zekrgoo, 1999  
 Cubic linked with the concept of center, because the crystalline composition from all space and each one of the main directions of religion on four levels with the match. The four corners of the Kaaba fact, according to a single point in the prayer itself is incomprehensible and represents the unity of the human will with the will of the unity of the universe is described in the Qur'an thus:

والی اللہ ترجع الامور؛

And the return of everything is Unto Allah (Surah Al-Imran, verse 108)

**Geometric shape of Kaaba**

Kaaba is acube shape building with six squares. Select the name of the Kaaba for the house of God refers to the specific geometric shape. They asked Imam Sadeq: why they named it Kaaba? He said: because it's square, why is it square? He said: because its front of Beyt al Ma.mur, why is Beyt al Ma.mur square? Because it's in front of Gods throne, why is Throne square? He said: because Islam is based on four words: "Subhan Allah, and Praise be to Allah, and La ilaha Alaallh, and Allah is the greatest" (Sheikh Saduq 1413 AH, Vol 2, p 191).

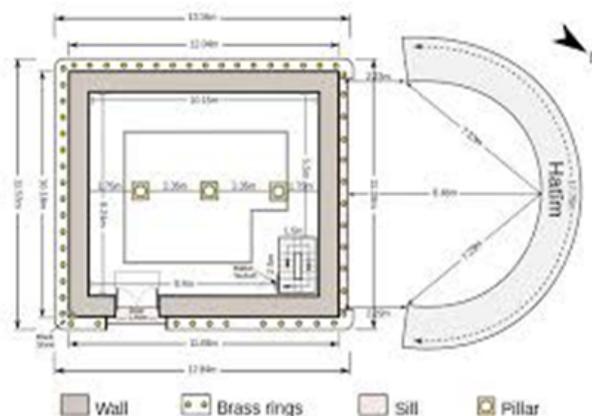


Figure 6: Plan and constituting elements of the Kaaba, according to Islamic culture and religion of Ahlul Bayt (AS)  
 Kaaba, from Kaab, the cube or square shape of means the place is high that kaaba is built on that each side of it is facing north, south,

east and west. Kaaba in Islamic cosmology is the center of the universe. This building is central the key of the universe and the the

key surrounding concentric circles around the center of circulation sky (satari: 74-77, 1993).

### **Manifestation of rationality, stability and security**

وَإِذْ جَعَلْنَا الْبَيْتَ مَثَابَةً لِّلنَّاسِ أَسْوَأَ مِّنَّا

(Surat al-Baqara: verse 125)

Kaaba According to this verse, a gathering place, a sanctuary and refuge Worlds. No refugee cannot be arrested or persecuted, so the critics can calm the outcry without any fear. Kaaba in this respect can be saved for the right of freedom, justice, oppression and protest against the inhumanity.

### **Unity in diversity and diversity in unity**

The most comprehensive look at the Islamic world and the most beautiful in existence, Monotheism in Islam are immutable and have the world's Muslims consider themselves a creator, Consolidated insight architect on all measures and actions to overcome his hobby. Unity, there is the key of existence and law center of being. In light of such insight that all might have certain center, as far as center or core from building collection is taken. Whole system will collapse and components, chaotic, anonymous and fictitious return. So not without cause that the yard is always placed in the center of the building, Pavilion shines in the garden, Front porch of the dome in the

middle of the pond in the center courtyard and fountain placed in the dock. Everything from a starting point which leads to desire the same point, this belief in him and to him arising from the text of the Quran is the source of creation and activism and human inner longing in visit the server in all measures and actions always present Muslim architect. What does the architect of the valley in bondage and such a prayer is said (Gholamreza Aqvani, wisdom and spiritual art 2004).

### **Pure geometry and architecture in Iran**

Iranian architect attempts to create a space in which memories of his heavenly garden that once it fell away in front of his live. In the chaos of the world are derived from the same world as the continuous descent and his concern for the accession of that country. According to the order and continuous follow suit him to the pure geometry. In his view the detailed geometry of the material and meaning, heaven and earth is quiet and your forward with complete geometric forms and regular Etesam attempts to beautiful and unique images from crystalline arrangement governing the universe and Adam offer. Thus are in their final shape of purity and perfection. As you look at the architectin weak and chaotic post and is not broken, therefore, will never yards, courtyards,

rooms, yard, porch, minarets, domes, outdoors, indoors and in the garden and non-geometric forms and discrete. (Hossein Nasr, *Islamic art and spirituality*, 2003)

## CONCLUSION

Moderation and justice are the basic concepts of Islam. Emphasis on maintaining the path of the distinctive features of religious and moral because, causing misunderstandings out of the way of moderation, understanding the concepts of Islam is radical and dangerous. Underlies the principle of justice and equality like the balance, and stability of human actions. Understanding and agreement opens first in man's inner thoughts and deeds of men then moderation art architecture based on the book, *Islamic architecture* utilizes the principles of moderate Islam in a rational environment. Kaaba or Mecca for Muslims is the cubic form; the building is a symbol of unity and anti-violence. As a model of Islamic moderation is pure architecture. Also in the chapter on rationality and justice in society are clearly numerous personal and social relationships. By restoring the pure geometry of the relationship between civilized nations of the circuit architecture moderation, unity and rationality to be applied more and more positive.

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