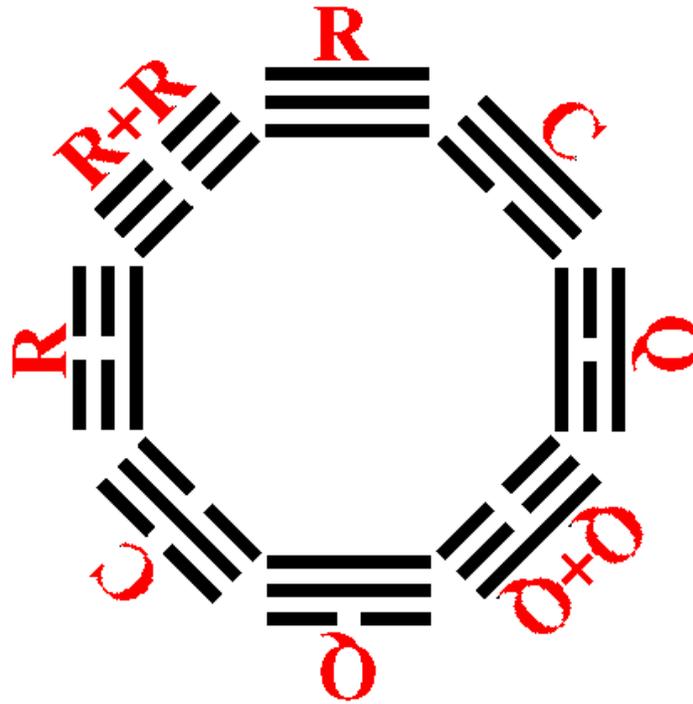# QMDJ Quantified

Abstract

Qi Men Dun Jia is an ancient form of divination from China which is still employed to make accurate predictions, and thus meets the definition of a scientific model based on scientific theory. This paper introduces a series of books which engages in "reverse engineering," using the concepts of contemporary mathematical physics to explain how this ancient model works. Specifically, we address Clifford Algebras, Bott Periodicity, Exceptional Lie Algebras, icosians, octonions and sedenions, as well as the Fano Plane and isometric relationships to Leptons and Baryons. The introduction concludes with reference to extremely ancient and superior science from 12,000 years ago, ancient Vedic culture and extremely ancient Egyptian culture.

Introduction

This paper connects a large variety of concepts from contemporary mathematical physics (see list below) into a single model which is capable of accurate prediction. Since it is capable of accurate prediction and results can be verified by independent researchers, then this model qualifies as a scientific model, and the theory which supports this model qualifies as scientific theory.

The Qi Men Dun Jia Model is based on a 3 x 3 Magic Square, with the central square or palace assigned the number 5. Symbols on eight levels rotate within the squares every 120 minutes or each double hour, in terms of traditional Chinese time - keeping. The levels form an isometric relationship with dimensions in mathematical physics, which enable the model to account for the existence of Qi and extra - sensory phenomena such as ghosts and spirits.

The Qi Men Dun Jia analyst studies the various positions of the symbols at any given hour, and forms judgments based upon various Five Element and Yin - Yang rules, and then makes predictions based upon overall analysis of all of the contributing factors. The Yin - Yang rules form an isometric relationship to Binary or Base 2 Math, while the Five Element rules form an isometric relationship to sexagenary or Base 60 Math, as well as to the Icosians.

The Qi Men Dun Jia Model is based on isometric relationships between the eight trigrams of Chinese metaphysics, the octonions and the chakra system of Indian metaphysics, in the same way that the 64 DNA nucleotides form an isometric relationship with the 64 hexagrams of the I Ching (Zhou Yi). Similarly, the eight trigrams form an isometric relationship to Clifford Algebras in the guise of the Clifford Clock or the Spinorial Chessboard.

Since the Fano Plane forms the multiplication table of the octonions, then we extend this relationship further to the Fano Plane and all of its forms, including the Golden Ratio aspect of the Fano Plane. The Golden Ratio takes prime importance under this scheme, and exists

for more important reasons than the simple aesthetic reasons usually given. We shall find that many aspects of the Qi Men Dun Jia Model include aspects of the Golden Ratio.

The octonions form isometric relationships with sub-atomic nuclear particles, such as baryons and leptons. In his Timaeus, Plato states how the universe is composed of tiny triangles. We posit here that Plato referred to octonions within the Fano Plane, as well as sedenions, which require fifteen Fano Planes, when he made that statement.

Greek (ancient Egyptian) knowledge plays a leading role in the Qi Men Dun Jia Model, including Plato's Lambda, which denotes the essential differences between states of matter, as well as Pythagorean Music Scales, which again form isometric relationships to octonions.

As further evidence of the ancient character of this knowledge, isometric relationships are given between the concepts described within and those of Jewish mysticism, or the Cabala. The Jews evidently belonged to the ancient Egyptian empire and thus have since maintained part of the knowledge base of ancient Egyptian culture.

QMDJ Math Physics
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Concept			Pages	
Vedic Physics				
Plato's Timaeus				
Plato's Lambda				
Pythagorean Music Scales				
Binary Math				
Sexagenary Math				
Pascals Triangle				

Dimensions				
Real Numbers				
Complex				
Hamiltonion (Clifford)				
Clifford Clock				
Lie Algebras				
Projective Planes				
Matrix Algebras				
Exceptional Lie Algebras				
D4 G2 F4 E6 E7 E8				
Barnes Wall Lattices				
Icosians				
Special Linear Group				
Fano Plane Equilateral Triangles				
Steiner Triple Systems Combinatorial Math				
Octonion				
Sedenion				
Trigintaduonions				
Spin and Pin				
Pinors				
SO(3) Rotation Group				
Time, Music and A5				
PSL - projective special linear groups				
homotopy groups				
Hopf Fibration				
Magic Squares				
Tori				
Golden Section				
Klein Quartic				
Geometry				
Topology				
Quasigroups				
Bose–Mesner algebra				

Permutations				
Square Waves				
Fourier Analysis				
Trigonometric Functions				

The periodicity of Trigonometric Functions figures into this model, and we help to explain why these were known to early Hindu mathematicians, as early as the sixth century AD. Moreover, the Trigonometric Functions bear close relationships to the Golden Ratio, and we explore those relationships in detail.

Upon this ancient base of science and mathematics we build a structure around the Exceptional Lie Algebras, especially the series D4 G2 F4 E6 E7 E8, crowned with the icosians. The focus of this structure is the Freudenthal - Tits Magic Square and its special features.

We posit that the Universe maintains a steady beat and in this sense, the remainder of the paper consists of combinatorial mathematics and related topics, especially Quasigroups, the Bose–Mesner algebra, Square Waves and Fourier Analysis.

The series is divided into the topics shown in the list above and is available only directly from the author.

References

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Wikipedia (various entries).