

Quantum Mechanics and Astrology

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Abstract:

This paper proposes a hypothesis drawing similarity between Atomic Science and Quantum mechanics in one part, and Astrology in the other part giving the possibility of a new method for analysing birth charts. Astrology interprets the character, strengths and weaknesses of a person and predicts the future based on the positions of Sun sign, Rising sign (Ascendant), positions of planets in the twelve houses and Zodiacs. Quantum Mechanics is the branch of science dealing with the properties of atomic and subatomic particles, where Classical Mechanics has failed. It attributes Quantum numbers to the electrons orbiting the nucleus and deals with wave and particle duality. In this article, the Astrological analysis of the horoscopes of two famous persons has been done. The strengths of the planets have been calculated as weighting numbers based on their positions in the Zodiacs and their Aspects. By rationalising the Sun sign, Rising sign and the planets according to their weighting numbers, the characters and accomplishments of the two persons have been worked out which bear striking resemblance to their actual life. The author then assigns three Astro-Quantum numbers: 1 followed by the Sun sign (e.g. 1SC for Scorpion); 2 followed by the Rising sign (e.g. 2GE for Gemini); and 3 followed by the planet in the Zodiac and its strength calculated as weighting number (e.g. 3SuAQ8 for Sun placed in Aquarius with positive number 8). The weighting number could be positive or negative. An Astro-Quantum model has been proposed with the first Astro-Quantum number as the first lobe, the second Astro-Quantum number as the second lobe, and the planets as third lobes with the respective weighting numbers as arrows spinning clockwise for positive numbers and counterclockwise for negative numbers. For simplicity, the house positions, retrogrades and transits have not been considered in the analysis. The author names this proposed method “Quantrology” which merits further researches.

Key words: Astrology, Zodiacs, Sun sign, Rising sign, planets, Aspects, Quantum Mechanics, Quantum number, Astro-Quantum number

1.0 Introduction

This paper attempts to describe the similarity between Atomic Physics, Quantum Mechanics and Astrology. Quantum Mechanics has revolutionized the concept of matter and energy especially for atomic and subatomic particles, and has explained the similarity of properties of the elements in the periodic table. Astrology is another branch of science which attempts to explain the personalities of people and forecast the future based on the positions of the Zodiac signs and planets in the horoscope chart of the individual. This paper provides a new insight into the positions of Zodiacs and planets of an individual based on the concept of Quantum Mechanics.

The paper works with the basic concept of Quantum Mechanics and Astrology, and does not attempt to explain in complex mathematical equations of Quantum Mechanics. Similarly, the paper relates to the basic concept of Western Astrology and does not go into complex intricacies of this branch of Astrology. The author calls this concept of paralleling Quantum Mechanics and Astrology as “Quantrology”.

2.0 Quantum Mechanics

Quantum Mechanics is the branch of science of Atomic Physics dealing with the study of matter and radiation at an atomic and subatomic level. Classical Physics developed by Newton fails to deal with very small (atomic) particles where Quantum Mechanics takes over and very fast particles nearing the speed of light where Einstein’s relativity theory takes over. The most important phenomena which Quantum Mechanics can explain and Classical Physics fails are the following:

1. Discreteness of energy
2. Wave-particle duality
3. Uncertainty of position and momentum of a particle
4. Spin of a particle

2.1 Discreteness of energy

Electrons can exist at only discrete energy levels which prevents them from spiraling into the nucleus as Classical Physics predicts. The spectra of excited atoms (such as orange-yellow light from sodium lamps) consist of individual lines of different colors that are discrete energy levels of the electrons in the excited atoms. When an excited electron in a high energy level drops to a lower energy level, it emits a photon of

light that corresponds to the exact energy difference between the levels providing the particular color in the spectra. The bigger the energy difference, the closer the color will be to the violet end of the spectra.

2.2 Wave-particle duality

All entities have both wave and particle aspects. The wavelength of the wave of a photon can be obtained from its momentum by the following formula:

$$p = h/\lambda$$

Where p is the momentum, λ is the wavelength and h is Planck's constant.

Light and matter exist as particles; wave is the probability of where that particle will be.

2.3 Uncertainty of position and momentum

This is based on Heisenberg's Uncertainty Principle which states that both the position and momentum of a particle can not be accurately determined. If the position of the particle is accurately known, the speed and direction of the speed will have poor accuracy.

2.4 Spin of a particle

Atomic particles have an intrinsic angular momentum or spin. This spin is quantized i.e. it has discrete energy levels. In Magnetic Resonance Imaging (MRI) the spin of the hydrogen atom is flipped to detect the presence of tumor in human body.

3.0 Astrology

Astrology is based on the idea that the cosmic events happening beyond the earth do not cause events to occur on earth but rather reflect the events happening on the earth. Cosmic and earthly events happen simultaneously and are mutually reflective. Neither is the cause of the other. Both are the product of the moment, one occurring in the universe outside the earth and the other happening on the earth. Thus by studying the patterns, events and cycles of the planets and heavenly bodies, we gather the knowledge as to what kinds of earthly events are associated with what kind of cosmic patterns and cycles. The planets and their relationship change constantly, but can be predicted very accurately by mathematical calculation. Thus by comparing the position of the planets to the earth to the data of the patterns collected over thousands of years, one can explain the present events and predict the future.

3.1 Astrological terms

The basic Astrological terms are the following:

1. Zodiacs
2. Planets
3. Sun sign
4. Rising sign or Ascendant
5. Ephemeris
6. Aspects
7. Horoscope chart

3.1.1 Zodiac

Ecliptic is the great circle inscribed on the terrestrial globe representing the apparent position of the sun during a year as viewed from the earth. Twelve constellations divide the ecliptic into twelve approximately equal parts. Each month the sun is in a different constellation of the ecliptic. The twelve parts as named after the constellations are – Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius and Pisces.

3.1.2 Planets

There are ten planets which include eight known planets plus the Sun and the Moon. Although the Sun and the Moon are technically not planets, but they act like planets in terms of their effects on the earth and its people. The ten planets are – Moon, Sun, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto.

3.1.3 Sun sign

Sun Sign represents the Zodiac that the Sun was in at the time of a person's birth. It can be determined quickly from the date of birth and Zodiac sign related to that date.

3.1.4 Ascendant or Rising Sun

Ascendant or Rising Sun is that Zodiac sign that is on the horizon (rising) at the birth moment of the person.

3.1.5 Ephemeris

Ephemeris is a series of books that show where every planet was, is and will be for every day past, present and future. These books are absolutely essential for Astrology.

3.1.6 Aspects

An Aspect is the relationship between two planets expressed in degrees and minutes at the birth moment. This relationship can be positive or negative and is very important for analysis.

3.1.7 Horoscope chart

The horoscope chart is a wheel showing the cosmic picture at the birth moment of a person. The wheel is divided into 12 equal houses with each house occupying 30 degrees of the circle. Figure 1 shows a natural wheel chart with each Zodiac sign occupying a house. The name of the line in the chart that marks the beginning of the house is called the cusp. We are not using houses in our interpretation of the birth chart for simplification.

The cusp of the 1st house is zero degrees and zero minutes of Aries and is the beginning of the natural wheel. Following the cusps counterclockwise, the Zodiac signs follow sequentially. A person's Sun sign can be quickly determined from the natural wheel. Supposing the person is born on June 3. Since it falls between May 21 and Jun 21 in the natural wheel, the person's Sun sign is Gemini.

Natal horoscope chart is for the birth moment of a person and captures the position of the planets in the Zodiac in the sky at the birth moment. Figure 2 shows the natal chart of a person born on 30 Nov, 1835 at 4:45 am at Florida, Missouri, USA. The top of the chart or MC (Midheaven) is that part of the Zodiac directly above our head while the bottom of the chart or IC (Nadir) is that part beneath our feet. At the extreme left of the chart is the Ascendant or Rising Sign which is that part of the Zodiac that was on the horizon (rising) at the birth moment. The Descendent (DSC) is on the right hand side of the chart and is that part of the Zodiac that is setting. The planets are placed around the chart where they appear in the Zodiac at the birth moment. In Figure 2, ASC9SC43 means that the Ascendant or Rising Sign is at 9 degrees and 43 minutes of the Zodiac Scorpion. All the other house cusps can be explained the same way. Planet positions are measured within the signs by degrees, minutes and seconds. The Moon in Fig. 2 is at 16 degrees of the sign Aries. In order to create a natal chart, the birth time of a person is calculated into sidereal time taking into account the longitude of the birthplace. The sidereal time is the time kept with respect to the distant

stars. From the sidereal time and date of birth, the Ascendant, the positions of the planets in the Zodiacs are obtained from the ephemeris.

4.0 Quantum Mechanics Analysis

Austrian Physicist Schrodinger derived a set of equations or wave functions for electrons. According to the equations, electrons confined in their orbits would set up standing waves and would describe only the probability of where an electron could be. The distributions of these probabilities form regions of space around the nucleus called orbital. Orbital could be described as electron density cloud. The densest area of the cloud has the greatest probability of finding an electron and the least dense area has the lowest probability of finding an electron.

4.1 Quantum Number

Each electron in an atom is described by four quantum numbers. The quantum numbers are all integers and are called:

1. Principal or shell quantum number n
2. Momentum or subshell quantum number l
3. Magnetic quantum number m
4. Spin quantum number s

4.1.1 Principal Quantum Number

The principal quantum number symbolized by n , denotes the major shell in which the electron is located.

The values it can take are those of any integer values greater than zero, which is expressed as a series **1, 2, 3, 4, ...** or **K, L, M, N, ...**

4.1.2 Subshell Quantum Number

The subshell quantum number symbolized by l , denotes the subshell in which the electron is located. The values it can take are those of any integer from $l = 0$ up to and including $l = n - 1$. When $n = 1, l = 0$; when $n = 2, l = 0$ and 1 ; when $n = 3, l = 0, 1, 2$; and so forth.. The values of subshell quantum numbers may be expressed as **0, 1, 2, 3, 4 ...**, or **s, p, d, f, g ...**

4.1.3 Magnetic Quantum Number

The Magnetic quantum number symbolized by m denotes the energy levels available within the subshell. It has any positive or negative integer value whose absolute magnitude does not exceed the value of l . The

values of m corresponding to the values of l are given in the Table below.

Subshell values		Number of values
0 or s	$l = 0, m = 0$	1
1 or p	$l = 1, m = -1, 0, +1$	3
2 or d	$l = 2, m = -2, -1, 0, +1, +2$	5
3 or f	$l = 3, m = -3, -2, -1, 0, +1, +2, +3$	7
4 or g	$l = 4, m = -4, -3, -2, -1, 0, +1, +2, +3, +4$	9

4.1.4 Spin Quantum Number

The spin quantum number symbolized by s denotes the direction of the electron spin and can take either of two values given as $+1/2$ or $-1/2$.

4.2 Relation to Periodic Table

The number of electrons which can be accommodated within any shell is as follows.

Shell 1 : **s**: 2 electrons

Shell 2 : **s** + **p**: $2 + 6 = 8$ electrons

Shell 3 : **s** + **p** + **d**: $2 + 6 + 10 = 18$ electrons

Shell 4 : **s** + **p** + **d** + **f**: $2 + 6 + 10 + 14 = 32$ electrons

Shell 5 : **s** + **p** + **d** + **f** + **g**: $2 + 6 + 10 + 14 + 18 = 50$ electronics

An electron, which is negative, is attracted to the nucleus and will occupy the innermost available orbital around the nucleus since that will be the orbital of lowest energy (ground state). The electronic structure of an atom builds up outward from the innermost to the outermost orbitals. The electron can move to a higher unoccupied orbital (excited state) by absorbing a photon of appropriate wavelength. The electron will decay from the excited state to the ground state emitting a photon after some period of time.

Hydrogen (H) has one electron so that electron occupies the orbital with $n = 1, l = 0, m = 0$ and spin $+1/2$, indicated as **1s1**. Helium (He) with two electrons occupies the orbital with $n=1, l = 0, m = 0, s = +1/2$, and another orbital with $n = 1, l = 0, m = 0, s = -1/2$, indicated as **1s2**.

Lithium (Li) has three electrons, so the quantum numbers of two of them are the same as He. Since the first shell can hold only two electrons, third electron has to fit in shell 2 and has the quantum numbers $n = 2$,

$l = 0, m = 0, s = +1/2$. The electron configuration of Li is indicated as $1s^2s^1$. Beryllium (Be) with four electrons follow the same pattern with electron configuration $1s^2s^2$. Since shell 2 can hold up to eight electrons, the remaining elements in the shell 2 are:

B: $1s^2s^2p^1$

C: $1s^2s^2p^2$

N: $1s^2s^2p^3$

O: $1s^2s^2p^4$

F: $1s^2s^2p^5$

Ne: $1s^2s^2p^6$

With 10 electrons of Ne the first two shells are filled. The building up procedure continues with Sodium (Na) whose outermost electron occupies shell 3 as $3s^1$:

Na: $1s^2s^2p^63s^1$ or $[\text{Ne}]3s^1$

Mg: $[\text{Ne}]3s^2$

Al: $[\text{Ne}]3s^23p^1$

Si: $[\text{Ne}]3s^23p^2$

P: $[\text{Ne}]3s^23p^3$

S: $[\text{Ne}]3s^23p^4$

Cl: $[\text{Ne}]3s^23p^5$

Ar: $[\text{Ne}]3s^23p^6$

Up to this point the order of the energy levels of the orbitals have been the same as the order of the quantum numbers. Beyond this point the order of the quantum numbers is not the same as the order of energy levels; the $4s$ orbital has lower energy than the $3d$ orbital. Hence the electron structure of the following elements are:

K: $[\text{Ar}]4s^1$

Ca: $[\text{Ar}]4s^2$

Sc: $[\text{Ar}]4s^23d^1$

Ti: $[\text{Ar}]4s^23d^2$

...

Kr: $[\text{Ar}]4s^23d^104p^6$

Since $5s$ has lower energy level than $4d$, the next element Rubidium (Rb) has the electron structure as $[\text{Kr}]5s^1$. The same pattern follows with the remaining elements of the periodic table keeping in mind the

energy levels of the orbits.

Elements of each row in the periodic table have the same number of shells. Elements in each column of the periodic table have the same number of electrons in the outermost shell.

4.3 Quantum Model

As described in Sec 4.2, the quantum numbers of Na is $1s^2 2s^2 2p^6 3s^1$ or $[\text{Ne}]3s^1$. The resulting quantum model is shown in Figure 3.

5.0 Astrology Analysis

By interpreting the natal chart of a person, a person's demeanor, traits and compatibility can be explained.

Also, studying the transits and progressions of the planets in the future and relating it to the positions of the planets at the birth time, a person's future favorable and unfavorable time can be predicted. This is the subject of Predictive Astrology; this will not be discussed in this paper.

The interpretation of the natal chart can be very involved. For simplicity, the following features will be considered.

1. Sun sign
2. Rising sign
3. Planet positions in the corresponding Zodiacs
4. Aspects between the planets

5.1 Sign Attributes

The positions of the Sun sign and the Rising sign in the Zodiacs are extremely important attributes in the Astrological analysis. The attributes of the Zodiacs are given in Table 1.

5.2 Planet Attributes

Each planet has its own unique attributes that blend with the respective house and sign it occupies and strongly influences the characteristics of a person. The attributes of the planets and their influence on the signs are given in Table 2. Pluto was discovered in 1930. Its influence has been observed in only Cancer, Leo, Virgo, Libra, Scorpio and Sagittarius. Hence its influence on the other planets is not known and not shown in Table 2.

5.3 Aspect Attributes

As mentioned in Sec. 3.1.6, Aspect is the relationship between two planets. Planets that are exactly the same degrees of the same sign are in conjunction with each other. If two planets are 60 degrees apart, they are in sextile with each other. If the two planets are 90 degrees apart, they are in square with each other. If the planets are 180 degrees apart, they are in opposition. If the planets are 120 degrees apart, they are in trine with each other. There is a plus-minus allowance, which is called orb. Orb of 10 degrees may be allowed for the conjunction or 12 degrees when either Sun or Moon is in conjunction, even 14 degrees is valid when the conjunction is between the Sun and Moon. Orb allowed for an opposition is 10 degrees. Orb for the square is 7 degrees. Orb for trine is 8 degrees and for sextile is 6 degrees. Orbs may be extended under certain conditions. When three or more planets are loosely tied together to form a loosely knit configuration. i.e. one in a valid orb with another planet that is in valid orb to still another, thus linking two planets which would be too far from the valid orb usually permitted. The attributes of the Aspects are given in Table 3.

5.4 Horoscope Case Study

As a case study, let us try to interpret the natal horoscope in Figure 2. The person was born at Florida, Missouri, USA at 4:45 a.m. on 30 November, 1835. Hence the person's Sun sign and Rising sign are:

Sun sign : Sagittarius from Fig. 1

Rising sign: Scorpion from Fig. 2

The planets and their influences are as follows.

Sun: 8 deg in Sagittarius. From Table 2, the influence of Sun in Sagittarius is high. The Sun, Mars and Venus are in allowable orb of each other, hence in conjunction and favorable. The Sun is in sextile with Neptune and Uranus, hence favorable. The Sun is in trine with Pluto and Moon, hence favorable.

Moon: 16 deg in Aries. The influence of Moon in Aries is medium. The Moon is conjunction with Pluto, hence favorable. The Moon is in square with Jupiter, hence harsh. The Moon is in trine with Venus, Mars and Sun, hence favorable.

Mercury: 19 deg in Scorpion. The influence of Mercury in Scorpion is high; trines Jupiter, hence favorable.

Venus: 22 deg in Sagittarius. The influence of Venus in Sagittarius is medium. Venus is in conjunction with Mars and Sun, hence favorable; Venus sextiles Uranus and Neptune, hence favorable; Venus trines

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Moon and Pluto, hence favorable.

Mars: 13 deg in Sagittarius. The influence of Mars in Sagittarius is medium. Mars is in conjunction with Venus and Sun, hence favorable. Mars sextiles Uranus and Neptune, hence favorable. Mars trines Moon and Pluto, hence favorable.

Jupiter: 15 deg in Cancer. The influence of Jupiter in Cancer is high. Jupiter squares Moon and Pluto, hence harsh; trines Mercury, hence favorable.

Saturn: 1 deg in Scorpio. The influence of Saturn in Scorpio is medium. Saturn is in square with Neptune, hence harsh.

Uranus: 27 deg in Aquarius. The influence of Uranus in Aquarius is high. Uranus sextiles Sun, Venus and Mars, hence favorable.

Neptune: 2 deg in Aquarius. The influence of Neptune in Aquarius is medium. Neptune squares Saturn, hence harsh. Neptune sextiles Sun, Venus and Mars, hence favorable.

Pluto: 13 deg in Aries. The influence of Pluto in Aries is not known. Pluto is in conjunction with Moon, hence favorable. Pluto squares Jupiter, hence harsh. Pluto trines Venus, Mars and Sun, hence favorable.

The influence of planets in the Zodiac signs is given 5 points for high, 3 for medium and 1 for low. The favorable aspects i.e. conjunction, sextile and trine are each given +1 point and the harsh aspects i.e. square and opposition are each given -1 point.

Hence the points for each planet for this case in Fig.2 are given in Table 4. In order of weighted influence the order of the planets is Sun, Venus, Mars, Uranus, Moon, Mercury, Neptune, Jupiter, Saturn and Pluto (?).

Now, let us write down the details of Sun sign and Rising sign from Table 1.

Sun sign Sagittarius: Good fortune, abundance, foreign matters, optimistic, friendly, long distance travel publishing, books, giving advice, blunt, tactless

Rising sign Scorpio: Strong will power, workaholic, resourceful, intense dedication, vindictive, jealous, intense emotion, never gives up.

Planets:

Sun - Power, riches, glory, success, energy, will, honor, jealousy, arrogance

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Venus - Love, romance, beauty, art, sex, money, possessions, self indulgence

Mars - Courage, power, energy, aggressiveness, construction, accidents, wounds, war, fighting

Uranus - Inventions, Science, Astrology, freedom, breaking from tradition, eccentricity, fanaticism

Moon - Personal interests, desires, nurturing, needs, maternal love, moodiness

Mercury - Mental capacity, reason, intelligence, communication, business, superiority, indecisiveness

Neptune - Spirituality, dreams, illusion, drugs, abnormality, intuition, psychic matters, sensitivity

Jupiter - Wealth, prosperity, luck, honors, fortune, grandeur, travel, extravagance

Saturn - Ageing, bindings, hexes, limitations, responsibility, ambition, psychic defence, spiritualism

Pluto - Conception, obsession, disease, birth, death, underworld

By analyzing the attributes to the Sun sign, the rising sun and the planets, the person's Sun sign and Sun are extremely strong. The person's character, traits and demeanor can be summarized as follows.

The person has glory, honor and success in life. The person has strong will, energy and courage. The person is workaholic and resourceful. The person works in writing books, publishing and giving advice.

The person has good fortune. The person travels long distance and lectures giving advice. The person is self indulgent, thus spending money. The person is loving and romantic.

Now the person we are describing is Mark Twain a.k.a Samuel Clemens, and his horoscope chart is shown in Figure 2. He was born on Nov 30, 1835 in Florida, Missouri, USA. Mark Twain is a legendary author who wrote masterpieces of sarcasm and humor. He worked in printing and publishing companies in his younger life and later on founded his own publishing company called Charles L. Webster & Company. He traveled extensively in America, Europe, Russia and Middle East and gave lectures on his publications. By early 1890s, his financial situation was in poor shape as a result of failure of his printing business and extravagant social life style. He had a happy married life with Livy who he married in 1870. So we can see how the interpretation of his horoscope chart and his real life closely matches.

6.0 Astro-Quantum Analysis

Each individual is unique in character, traits and demeanor, which is not 100% compatible with another individual. Hence each individual is like an element in the periodic table. Now the periodic table has 118 elements and the properties of the elements can be successfully explained by Quantum Mechanics. The

number of electrons in the element increases up the table as electrons fill the shell. In the case of Astro-Quantum analysis, there are billions of people, each with their own characteristics. Each individual has own Sun sign, Rising sign and the influence of all ten planets. Thus the analysis of the Astrology in the current format of Quantum mechanics is not possible. Let us take a different approach. The following Astro-Quantum numbers are proposed.

Sun sign : 1 followed by the Zodiac sign. Thus, Sun sign Leo is 1LE, Aquarius is 1AQ and so on.

Rising sign: 2 followed by the Zodiac sign. Thus, Rising sign Gemini is 2GE, Aries is 2AR and so on.

Planets: 3 followed by the Zodiac in which it is placed and the total points as calculated according to the method in Table 3. Thus Moon is placed in Aries with total point 6 is 3MoAR6 and so on.

Now let us analyze the 2nd Natal Horoscope chart shown in Figure 4. The person was born at Warsaw, Poland at 12 pm on Nov 7, 1867.

Hence the Sun sign from Figure 1 is Scorpion. The Rising sign from Figure 4 is Capricorn. Accordingly, the first two Astro-Quantum numbers are 1SC and 2CP.

Since Sun, Saturn, Venus, Mars and Mercury are all within allowable orb of each other, these planets are in conjunction. The planet positions and influences are as follows.

Sun: 15 deg in Scorpio and medium in influence. Sun is in conjunction with Saturn, Venus, Mars and Mercury. Sun trines Moon and Uranus; opposes Pluto; squares Jupiter.

Moon: 17 deg in Pisces and high in influence. Moon trines Sun, Venus, Saturn, Mars, Mercury and Uranus; sextiles Pluto.

Mercury: 7 deg in Sagittarius and low in influence. Mercury is in conjunction with Sun, Saturn, Venus and Mars. Mercury trines Uranus and Moon; squares Jupiter; opposes Pluto.

Venus: 26 deg in Scorpio and low in influence. Venus is in conjunction with Sun, Mars, Mercury and Saturn. Venus trines Moon and Uranus; squares Jupiter; opposes Pluto.

Mars: 30 deg in Scorpion and medium in influence. Mars is in conjunction with Sun, Saturn, Mercury and Venus. Mars trines Moon and Uranus; squares Jupiter; opposes Pluto.

Jupiter: 29 deg in Aquarius and medium in influence. Jupiter squares Sun, Mars, Mercury, Venus and Saturn.

Saturn: 26 deg in Scorpion and medium in influence. Saturn is in conjunction with Sun, Venus, Mercury

and Mars. Saturn trines Moon and Uranus; squares Jupiter; opposes Pluto.

Uranus: 13 deg in Cancer and high in influence. Uranus trines Sun, Saturn, Venus, Mars, Mercury and Moon; sextiles Pluto; squares Neptune.

Neptune: 16 deg in Aries and medium in influence. Neptune trines Sun, Mercury, Venus, Saturn and Mercury; squares Uranus.

Pluto: 16 deg in Taurus and influence unknown. Pluto sextiles Uranus and opposes Sun, Saturn, Mercury, Mars and Venus.

Table 5 shows the total points calculated for each planet.

Now let us calculate the Astro-Quantum number for each planet.

Sun: 3SuSC7 Moon: 3MoPI12 Mercury: 3MeSG5 Venus: 3VeSC5

Mars: 3MaSC7 Jupiter: 3JuAQ-2 Saturn: 3SaSC7 Uranus: 3UrCN11

Neptune: 3NeAR7 Pluto: 3PITA?

Hence the total Astro-Quantum number of the person of Natal Horoscope chart in Fig. 4 is as follows:

1SC/2CP/3SuSC7/3MoPI12/3MeSG5/3VeSC5/3MaSC7/3JuAQ-2/3SaSC7/3UrCN11/3NeAR7/3PITA?

It is much longer than the quantum numbers of elements in the periodic table. Even with this simplified model of Astro-Quantum numbers, the number of different combinations would be $12 \times 12 \times 10 \times 12 \times 18 = 311,040$, assuming the planet influences vary from 12 to -6. But, this simplified model does not include the positions of the planets in houses, the retrograde of the planets, influences of adjacent Zodiacs and houses, and the transits. Taking those attributes into account, the number of combination would be of the order of billions, hence no two individuals are the same. But, closer their Astro-Quantum numbers are, the more similar they are. For compatibility, the more partner's planets can influence and increase the weighting numbers of the person's planets, the more compatible they are. Now let us try to analyze and interpret the person in the horoscope chart in Fig. 4.

Sun sign Scorpion: Strong will power, workaholic, resourceful, intense dedication, vindictive, jealous, intense emotion, never gives up.

Rising sign Capricorn: Hardworking, frugal, responsible, desire for status, condescending.

Planets in order of their strengths are Moon, Uranus, Sun, Mars, Saturn, Neptune, Mercury, Venus, Jupiter

and Pluto (?).

Moon is feminine with desires, nurturing and maternal love. Uranus is associated with inventions, science, breaking from tradition and eccentricity. Sun provides power, riches, glory, success, energy, will and honor. Mars provides courage, power, energy, aggressiveness, construction, accidents, wounds and war. Saturn provides ageing, bindings, hexes, limitations, responsibility and ambition. Neptune provides spirituality, dreams, illusion, drugs, abnormality, intuition and psychic matters. Mercury provides mental capacity, reason, intelligence, communication and business. Venus provides love, romance, small money and possessions. Jupiter influence is negative, hence very unlucky having poor health and wealth. Pluto influence is negative indicating sorrows, delusions and powerlessness.

Balancing all the attributes mentioned in the previous paragraph, a profile of the person can be created as follows. The person is resourceful and workaholic with intense dedication. The person works in scientific field making inventions breaking from traditions with pursuance till the end acquiring honor and glory. The person is romantic, feminine and nurturing with motherly love. The person has poor health, not wealthy and many sorrows in life.

In fact, the horoscope chart in Fig 4 belongs to the celebrated scientist Marie Curie who was born on Nov 7, 1867 in Warsaw, Poland. Marie Curie had a difficult early life when her mother and sister died when she was 11 and she suffered from mental depression. She moved to Paris for higher studies and graduated with flying colors. She relentlessly pursued her scientific research against all prejudices against women, lack of funding and facilities. She fell in love with her colleague Pierre Curie who she married and led a happy married life. She won Nobel Prize twice once jointly with Pierre. They never got rich from their inventions and had trouble covering their expenses until they received the Nobel Prize. Both Marie and Pierre Curie suffered poor health due to exposure to radiation over a long period. Marie had further misfortune when Pierre died of road accident. Marie was a loving mother and raised her two daughters very well. She encouraged her daughter Irene pursue research work who later on also received Nobel Prize with her husband Frederic. Marie had constant poor health and died of leukemia on July 4, 1934. Amazing similarity between the personal profile and real life!

6.1 Astro-Quantum Model

Now let us try to sketch an Astro-Quantum number model with Astro-Quantum numbers derived for Marie

Curie. The model is a cylinder divided into twelve sectors each sector representing a Zodiac sign as shown in Figure 5. The Sun sign for Marie Curie is shown as a purple lobe placed in the Scorpio sector and the Rising sign is a yellow lobe placed in the Capricorn sector. Planets placed in the Scorpio sector are as follows. Sun: red lobe; Saturn: orange lobe; Venus: green lobe; Mars: blue lobe

The points related to the influences of the planets in Table 4 are shown as entities marked with arrows. For positive points the arrows move clockwise. For negative points such as for Pluto shown as gray in Fig. 5, the arrows representing the entities move anticlockwise. For simplicity of the diagram, other planets placed in their respective Zodiac sector are not shown.

6.2 Conclusion

Astrology, Zodiac signs and planets do not cause events in our life. It is a guidance to indicate the individual strengths, weaknesses, obstacles and opportunities. With this knowledge, an individual can better prepare to meet the challenges of life and be successful.

In this paper, I have endeavored to derive the influences of planets by simple calculations and charts; and then use those calculations match with the natal charts of two famous people – Mark Twain and Marie Curie. In both cases amazing similarity between the predictions from the charts and actual life stories have been seen. Then, I have endeavored to explain the Sun sign, Rising sign and the planets in the light of Quantum Mechanics. I have called the entities as three Astro-Quantum Numbers – Sun sign, Rising sign and planets with the planet strengths as clockwise or anticlockwise spins around the planet lobes. Since, no two individuals are similar and can be counted as an element in the periodic table, the Astro-Quantum formula is much much more complex than that in Quantum Mechanics.

For simplicity, the nodes of the Moon, retrogrades, houses and transits have not been taken into account. This is an interesting method of explaining Astrology in light of Quantum mechanics and it merits further research works. As mentioned earlier, I call this hypothesis “Quantrology”.

7.0 References:

1. Astrology for Beginners: William W. Hewitt
2. CyberWork Khaldea

3. Quantum Mechanics: P.T. Matthews

Biography:

Tapan Das has over 30 years of technical management experience in the fields of telecommunication, wireless, media gateway, IP and ASIC. His work experience includes the following- VP Engineering at SGNT Technologies, Mississauga, Canada; Director of Engineering, Lucent Technologies, Alameda, California; Technical Manager, Nortel Networks, Canada and Texas, USA; Development Manager, Plessey Semiconductors, Swindon, UK. Currently Tapan is working as a freelance consultant. Tapan holds M.Sc. in Electronics from University of London, UK and Ph.D. in Microwave Electronics from University of Bradford, UK. Tapan is a member of the Professional Engineering Association, Ontario, Canada. Tapan holds seven patents and has published several papers in international conferences and journals.

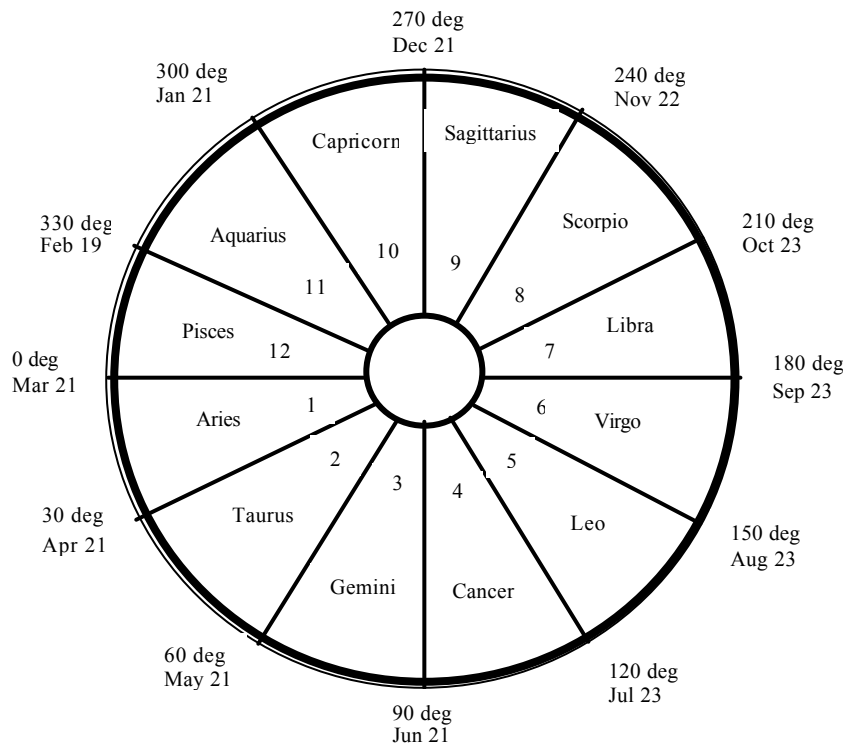
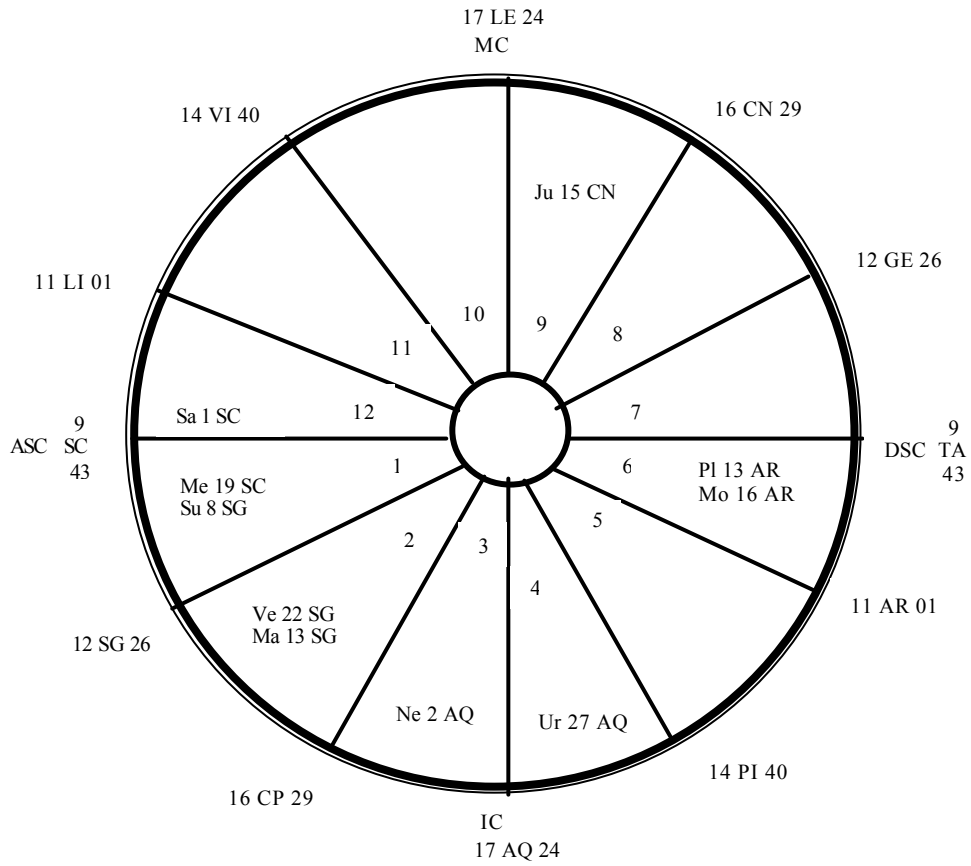


Figure 1: The Natural Wheel



Zodiac signs	Zodiac Abbrvs	Planets	Planet Abbrvs
Aries	AR	Moon	Mo
Taurus	TA	Sun	Su
Gemini	GE	Mercury	Me
Cancer	CN	Venus	Ve
Leo	LE	Mars	Ma
Virgo	VI	Jupiter	Ju
Libra	LI	Saturn	Sa
Scorpio	SC	Uranus	Ur
Sagittarius	SG	Neptune	Ne
Capricorn	CP	Pluto	Pl
Aquarius	AQ		
Pisces	PI		

Figure 2: Natal Horoscope Chart 1

Chart taken from CyberWorld Khaldea

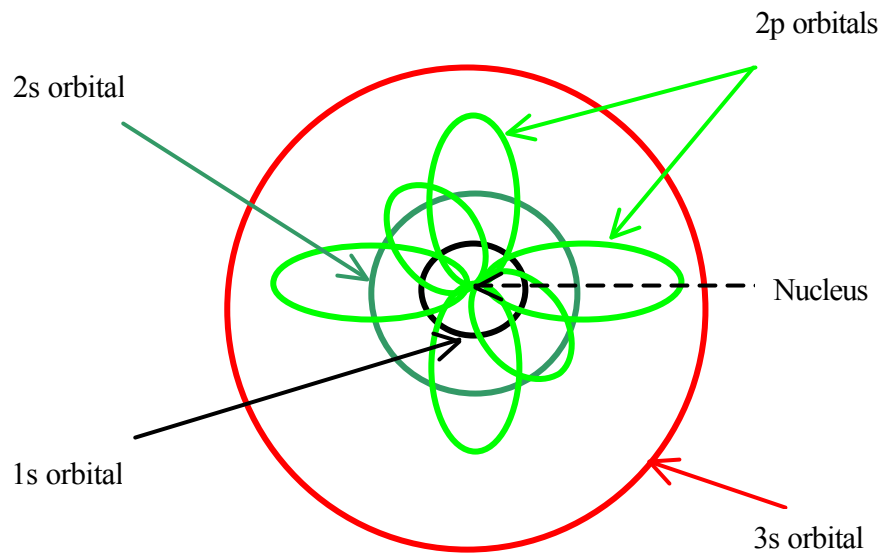


Figure 3: Quantum Model of a Sodium Atom

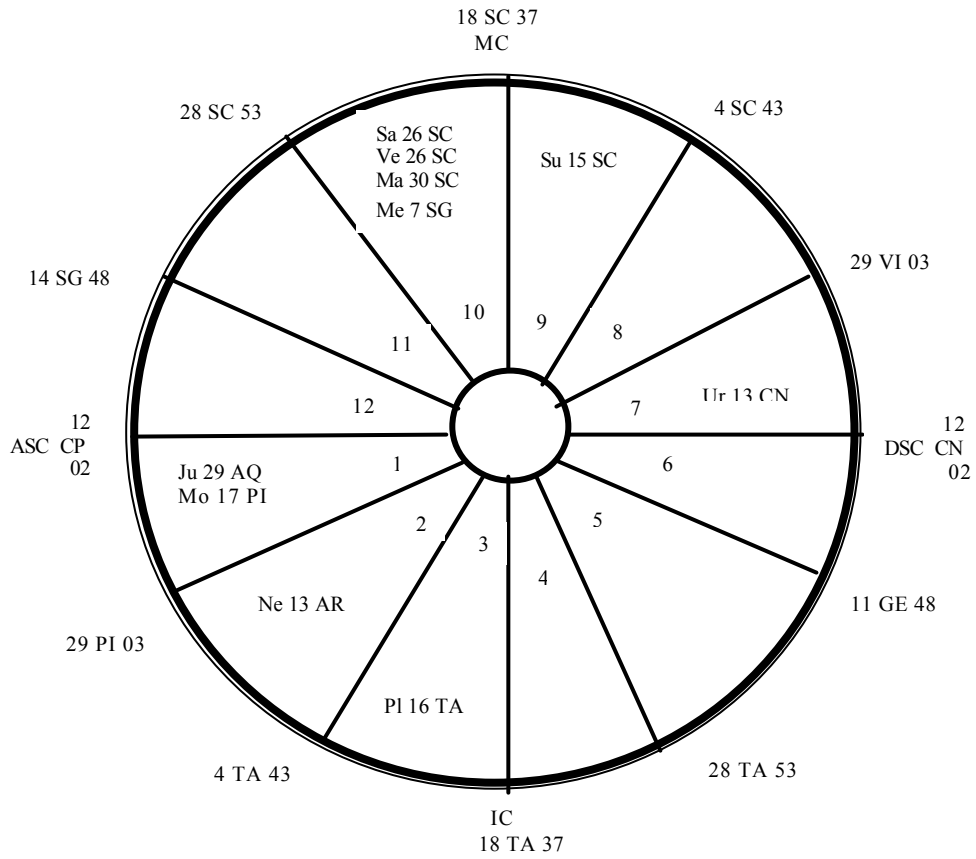


Figure 4: Natal Horoscope Chart 2

Chart taken frpm CyberWorld Khaldea

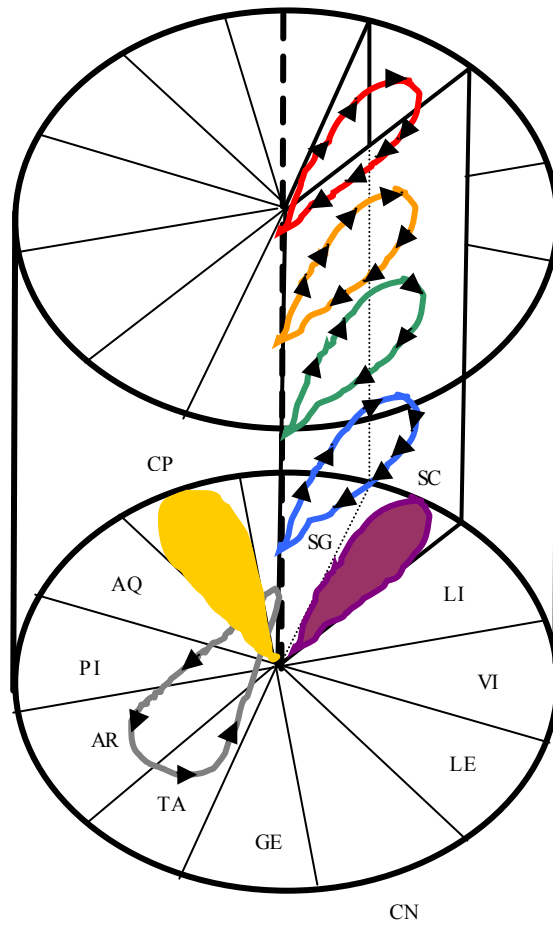


Figure 5: Astro-Quantum Model

Table 1 : Sign Attributes

Aries	Action, leadership, energy, aggressive, courage, arrogance, combative
Taurus	Possessive, stable, reliable, steady, slow to start, but steady progress, stubborn
Gemini	Most intelligent, quick mind, curious, multi-tasking, communication, wit. can be shallow, lack self discipline
Cancer	Most sensitive, intuitive, domestic matter very important, caring, tenacious? moody, combative
Leo	Noble, generous, seek power, confident, ambitious, attraction to opposite sex., ego, outspoken, ostentatious, domineering.
Virgo	Perfectionist, efficient, thorough, analytical, pettiness, critical and flaw seeking of others.
Libra	Partnership, joint enterprise, harmonious, balance, fairness, indecisive, overly romantic
Scorpio	Strong will power, workaholic, resourceful, intense dedication, vindictive, jealous, intense emotion, never gives up.
Sagittarius	Good fortune, abundance, foreign matters, optimistic, friendly. Long distance travel, publishing, books, giving advice, blunt, tactless.
Capricorn	Frugal, hardworking, responsible, desire for status, condescending, lacking integrity may have highest accomplishments, but the greatest of falls.
Aquarius	Freedom, independence, unconventional, humanitarian, inventiveness, originality, stubborn, eccentric, dogmatic
Pisces	Intuitive, very sensitive, sympathetic, compassionate, charitable, easily influenced, not ambitious, stubborn

Table 2: Planet Attributes

Planet	Attributes	Sign Influence		
		High	Medium	Low
Sun	Power, riches, glory, success, energy, will, honor, jealousy, arrogance	Leo, Aries, Sagittarius	Taurus, Cancer, Virgo, Scorpio, Capricorn, Pisces	Aquarius, Libra, Gemini
Moon	Personal interests, desires, nurturing, needs, maternal love, moodiness	Cancer, Taurus, Pisces	Aries, Gemini, Leo, Sagittarius, Aquarius, Libra	Virgo, Scorpio, Capricorn
Mercury	Mental capacity, reason, intelligence, communication, business, sense of superiority, indecisiveness	Gemini, Virgo, Aquarius, Scorpio	Aries, Cancer, Libra, Capricorn	Leo, Taurus, Sagittarius, Pisces
Venus	Love, romance, beauty, art, sex, money, possessions, self indulgence	Taurus, Libra, Pisces, Aquarius	Gemini, Cancer, Sagittarius, Capricorn	Aries, Scorpio, Virgo, Leo
Mars	Courage, power, energy, aggressiveness, construction, accidents, wounds, war, fighting	Aries, Pisces, Capricorn, Leo	Taurus, Gemini, Virgo, Scorpio, Sagittarius,	Libra, Cancer, Aquarius
Jupiter	Wealth, prosperity, luck, honors, fortune, grandeur, travel, extravagance	Sagittarius, Cancer, Taurus, Pisces	Aries, Leo, Libra, Aquarius	Gemini, Capricorn, Virgo, Scorpio
Saturn	Ageing, bindings, hexes, limitations, responsibility, ambition, psychic defence, spiritualism	Capricorn, Libra, Virgo	Taurus, Gemini, Leo, Scorpio, Sagittarius, Aquarius	Cancer, Aries, Pisces
Uranus	Inventions, Science, Astrology, freedom, breaking from tradition, eccentricity, fanaticism	Aquarius, Scorpio, Cancer, Libra	Gemini, Virgo, Capricorn, Pisces	Leo, Taurus, Sagittarius, Aries
Neptune	Spirituality, dreams, illusion, drugs, abnormality, intuition, psychic matters, sensitivity	Pisces, Sagittarius, Cancer	Aries, Leo, Libra, Scorpio, Taurus, Aquarius	Virgo, Gemini, Capricorn
Pluto	Conception, obsession, disease, birth, death, underworld	Scorpio, Cancer, Virgo	Not known	Leo, Libra, Sagittarius

Table 3: Aspects Attributes

Aspect Name	Degree Separation	Nature	Influence
Conjunction	0	Major	Favorable
Sextile	60	Major	Favorable
Square	90	Major	Harsh
Trine	120	Major	Favorable
Opposition	180	Major	Harsh

Table 4: Weighted influence of planets in horoscope chart 1

Planet	Zodiac position	Conjunction	Sextile	Trine	Opposition	Square	Total
Sun	5	2	2	2			11
Moon	3	1		3		-1	6
Mercury	5			1			6
Venus	3	2	2	2			9
Mars	3	2	2	2			9
Jupiter	5			1		-2	4
Saturn	3					-1	2
Uranus	5		3				8
Neptune	3		3			-1	5
Pluto	?	1		3		-1	3?

Table 5: Weighted influence of planets in horoscope chart 2

Planet	Zodiac position	Conjunction	Sextile	Trine	Square	Opposition	Total
Sun	3	4		2	-1	-1	7
Moon	5		1	6			12
Mercury	1	4		2	-1	-1	5
Venus	1	4		2	-1	-1	5
Mars	3	4		2	-1	-1	7
Jupiter	3				-5		-2
Saturn	3	4		2	-1	-1	7
Uranus	5		1	6	-1		11
Neptune	3			5	-1		7
Pluto	?		1			-5	-4?