

Primary Directions

A Tool of Predictive Astrology

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1. A FAST AND EASY METHOD

1.1 Introduction

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FIGURE 1.1 presents the natal chart of Martin Luther King Jr. according to the sidereal zodiac. The *ayanāṃśa* here is $22^{\circ} 51' 05''$ according to True Chitrā 0° Libra. Note that Atlanta was in the Central Time Zone until legislation switched it to the Eastern Time Zone on Friday, 21 March 1941.

FIGURE 1.1: King's natal chart

(PC12) 15:45 WS12 PI	(PC11) 10:33 Ve 17:42 Mo 26:44 WS11 AQ	Su 02:16 (PC10) 05:21 Me 18:54 WS10 CP	Sa 02:30 (PC9) 10:33 WS9 SA	(PC8) 15:45 WS8 SC
Ju 08:19 (PC1) 20:57 WS1 AR	Martin Luther King Jr. Natal Chart (Sidereal Zodiac) Tuesday, 15 JAN 1929 at 12:00 CST Atlanta, GA ($33^{\circ} 45' N$; $84^{\circ} 23' W$)			(PC7) 20:57 WS7 LI
(PC2) 15:45 Ma 29:02 R WS2 TA	(PC3) 10:33 WS3 GE	(PC4) 05:21 WS4 CN	(PC5) 10:33 WS5 LE	(PC6) 15:45 WS6 VI

In this chapter, we will use natal primary directions together with hindsight in order to examine three particular events in the life of Martin Luther King Jr. These events are: Event #K1 (King's wedding day in 1953), Event #K2 (King's DC speech in 1963), and Event #K3 (King's passing in 1968).

Earth's axial rotation gives rise to primary motion. From the point of view of an earthbound observer, primary motion is perceived as Earth remaining at rest while the surrounding celestial sphere and everything on it (including the zodiacal belt) rotate about Earth's line of poles.

The **method of primary directions** is a technique that uses primary motion to predict events. According to this technique, each longitudinal degree of Earth's axial rotation corresponds to one completed year of the native's life. It takes about 4 minutes for Earth to longitudinally rotate by 01° , and so the native's life at A sidereal years of age is revealed by what is happening

astrologically when they are about ($4 \times A$) minutes old. For example, the native's life at age 90 is revealed by an astrological chart that is cast for when the native is about 360 minutes old.

TABLE 1.1: Average longitudinal angular speeds

Planet	Angular Speed
Saturn	00° 02' 01" per day
Jupiter	00° 04' 59" per day
Mars	00° 31' 27" per day
Sun	00° 59' 08" per day
Venus	01° 12' 00" per day
Mercury	01° 23' 00" per day
Moon	13° 10' 35" per day

If we take age 90 to be the human life span, then we can examine the native's entire life based on what is happening astrologically during the first 360 minutes (or 6 hours) after their birth. TABLE 1.1 presents the average longitudinal angular speed of each classical planet as it undergoes secondary motion (that is, apparent movement along the zodiac) along the celestial sphere. From this table, we see that each planet (apart from Moon) does not move very much along the zodiac during a 6-hour time period, and so we may ignore secondary motion and view primary motion as causing the zodiacal belt (with the planets attached to it) to rotate backward through fixed houses of the local sky. During the 6-hour time period after birth, primary motion directs the planets into major aspects with the angles (the Ascendant, the Descendant, the Midheaven, and the Imum Coeli).

In this chapter, we will be dealing with primary directions according to the fast and easy method that is presented by astrologer Anthony Louis in his blog post *Fast and Easy Primary Directions* (20 July 2019).

The **Ptolemy time-key** (named after the Hellenistic astrologer Claudius Ptolemy) is the notion that one degree of Earth's axial rotation corresponds to one sidereal year of age. A **sidereal day** is the time taken by Earth to complete a single rotation relative to the fixed stars, and it consists of approximately 23 hours, 56 minutes, and 4.0905 seconds (which is about 1436.068175 minutes). As Earth makes its daily 360° rotation about its axis, it rotates at an angular rate of about

$$\frac{360 \text{ deg}}{1436.068175 \text{ min}} \approx \frac{1 \text{ deg}}{3.98907826 \text{ min}},$$

and so it takes Earth about 3.98907826 minutes to longitudinally rotate by 01°. Therefore, according to the Ptolemy time-key, every addition of about 3.98907826 minutes to the native's birth time symbolically advances the natal chart by one sidereal year of age.

The notion of natal primary directions gives rise to the following technique:

Technique #PD1: In order to examine the native's life around A sidereal years of age, cast symbolic charts for about $(3.98907826 \times A)$ minutes before and after the birth time. In these symbolic charts, look for major planet-to-angle aspects, taking the margin of inexactness to be about 01° . These major aspects are primary directions that each predict an event to occur in the native's life around A sidereal years of age.

The primary directions that are shown in the pre-birth symbolic chart are said to be **neo-converse**. The primary directions that are shown in the post-birth symbolic chart are said to be **direct**.

In this book, we will be using the sidereal zodiac, Porphyry houses primarily, and whole-sign houses secondarily. As a quadrant-house system, the **Porphyry house system** uses the horizon and meridian axes to divide the sky into four quadrants, each containing three houses. Moreover, the three Porphyry houses within a given quadrant are equal in angular expanse. The **whole-sign house system** is an ecliptic-based house system in which each house is tied to a single sign.

Regarding the Porphyry house system, we will be using the denotation 'PH n ' to mean 'Porphyry House n ' and the denotation 'PC n ' to refer to its cusp. Note that the angles are PC1 (the Ascendant), PC4 (the Imum Coeli), PC7 (the Descendant), and PC10 (the Midheaven). The even-numbered, nonangular house cusps (that is, PC2, PC6, PC8, and PC12) have the same sign degree. Moreover, the odd-numbered, nonangular house cusps (that is, PC3, PC5, PC9, and PC11) have the same sign degree.

Regarding the whole-sign house system, we will be using the denotation 'WS n ' to mean 'whole-sign House n '. In the whole-sign house system, WS1 is tied to the **rising sign** (that is, the sign of the Ascendant), WS7 is tied to the sign of the Descendant, but WS10 and WS4 are not always tied respectively to the signs of the Midheaven and the Imum Coeli.

Each Porphyry house of an astrological chart is represented by its **house lord**, which is the planet that rules the sign of the house's cusp. For example, if PC9 lies in Saturn-ruled Aquarius, then Saturn is the PH9 lord. Each classical planet serves as the representative of its house(s) via its accidental role as the house lord. Moreover, each classical planet is the natural representative of some subset of persons, places, or things. We will follow astrologer Mychal A. Bryan by interpreting what a planet means firstly as an accidental representative and secondly as a natural representative. Note that the adjective 'accidental' here means 'occurring according to circumstances'.

1.2 Event #K1: King's wedding day in 1953

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On Thursday, 18 June 1953, Martin Luther King Jr. married Coretta Scott, who would later become a civil-rights leader in her own right. By this date, King had lived through 6 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, and 1952). It follows that on his wedding day, King's sidereal age was about

$$\frac{[(6 \times 366) + (18 \times 365) + 16 + 28 + 31 + 30 + 31 + 18] \text{ days}}{365.256363 \text{ days/yr}} \approx 24.42120 \text{ yrs.}$$

On applying Technique #PD1 for $A \approx 24.42120$, we get

$$(3.98907826 \times A) \text{ min} \approx 97.41808 \text{ min} \approx 1.62363 \text{ hr} \\ \approx 1 \text{ hr} + 37 \text{ min} + 25 \text{ sec}$$

as the chart-change term with respect to the natal chart (FIGURE 1.1).

THE PRE-BIRTH CHART

For the pre-birth symbolic chart (FIGURE 1.2a), we subtract the chart-change term (1 hour, 37 minutes, and 25 seconds) from King's birth time of 12:00 pm, CST, thereby getting 10:22:35 am, CST. In this symbolic chart, we are looking for neo-converse primary directions that are associated with King's life around age 24. In this regard, we find nothing.

FIGURE 1.2a: Pre-birth symbolic chart

(PC12) 14:57 Ve 17:37 Mo 25:51 WS12 AQ	Su 02:12 (PC11) 13:45 Me 18:48 WS11 CP	Sa 02:29 (PC10) 12:33 WS10 SA	(PC9) 13:45 WS9 SC	(PC8) 14:57 WS8 LI
(PC1) 16:09 WS1 PI	Martin Luther King Jr. (Sidereal) Pre-Birth Chart for Thursday, 18 JUN 1953 Tuesday, 15 JAN 1929 at 10:22:35 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 16:09 WS7 VI
Ju 08:18 (PC2) 14:57 WS2 AR	(PC3) 13:45 Ma 29:03 R WS3 TA	(PC4) 12:33 WS4 GE	(PC5) 13:45 WS5 CN	(PC6) 14:57 WS6 LE

That's it!

THE POST-BIRTH CHART

For the post-birth symbolic chart (FIGURE 1.2b), we add the chart-change term (1 hour, 37 minutes, and 25 seconds) to King's birth time of 12:00 pm, CST, thereby getting 01:37:25 pm, CST. In this symbolic chart, we are looking for direct primary directions that are associated with King's life around age 24. In this regard, we find a Mercury-PC1 trine (or equivalently, a Mercury-PC7 sextile) and a Mars-PC10 trine (or equivalently, a Mars-PC4 sextile).

FIGURE 1.2b: Post-birth symbolic chart

Ju 08:19 (PC12) 12:40 WS12 AR	(PC11) 06:05 WS11 PI	Ve 17:46 Mo 27:36 WS10 AQ	Su 02:21 (PC9) 06:05 Me 19:00 (PC10) 29:31 WS9 CP	Sa 02:30 (PC8) 12:40 WS8 SA
(PC1) 19:14 Ma 29:02 R WS1 TA	Martin Luther King Jr. (Sidereal) Post-Birth Chart for Thursday, 18 JUN 1953 Tuesday, 15 JAN 1929 at 13:37:25 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 19:14 WS7 SC
(PC2) 12:40 WS2 GE	(PC3) 06:05 (PC4) 29:31 WS3 CN	 WS4 LE	(PC5) 06:05 WS5 VI	(PC6) 12:40 WS6 LI

In the post-birth symbolic chart, the Mars-PC10 trine is a direct primary direction that may refer to King's wedding. For natal Mars (in FIGURE 1.1), we find the following:

[Natal] Mars in PH2: Mars is the lord of PH1 (the native's well-being) and PH8 (an ending that facilitates transformation), and it is the natural representative of energetic assertive action. Mars lies in the intersection of PH2 and Taurus WS2, both houses referring to supportive persons or things. At her best, feminine Taurus is doggedly determined to make tangible progress in achieving a better quality of life. In light of the foregoing, Mars refers to King as enthusiastically engaging in self-betterment.

For post-birth Mars (in FIGURE 1.2b), we find the following:

[Post-birth] Mars in PH1: Mars is the lord of PH7 (marriage) and PH12 (trying situations), and it is the natural representative of energetic assertive action. Mars lies in the intersection of PH1 and Taurus WS1, both houses referring to the native's well-being. At her best, feminine Taurus is doggedly determined to make tangible progress in achieving a better quality of life. In light of the foregoing, Mars refers to King as enthusiastically engaging in self-betterment by getting married.

PC4 refers to the native's comfort and security, and the Mars-PC4 sextile refers to Mars as being helpful to PC4. PC10 refers to achieving something significant and to gaining prestige, and the Mars-PC10 trine refers to Mars as being helpful to PC10. The equivalence of the Mars-PC4 sextile and the Mars-PC10 trine indicates that King's marriage is a significant achievement that brings comfort, security, and prestige.

By trial and error, we find that the Mars-PC10 trine becomes exact at about 01:35:31 pm, CST (about 13.59194 *hr* CST) on Tuesday, 15 January 1929 (King's birth date). From 12:00 pm, CST (King's birth time) to 01:35:31 pm, CST, the time difference is

$$\text{elapsed time} = 1 \text{ hr} + 35 \text{ min} + 31 \text{ sec} \approx 95.51667 \text{ min} .$$

On making use of the Ptolemy time-key, this time difference corresponds to an age difference of

$$\begin{aligned} \text{elapsed age} &\approx \frac{1 \text{ yr of age}}{3.98907826 \text{ min}} \times 95.51667 \text{ min} \approx 23.94455 \text{ yrs} \\ &= 23 \text{ yrs} + \left(0.94455 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 23 \text{ yrs} + 345.00290 \text{ days} , \end{aligned}$$

and so the direct Mars-PC10 trine predicts an event to occur about 345 days after Tuesday, 15 January 1952 (King's 23rd birthday), which is on Thursday, 25 December 1952 (Day 360 of 1952). This prediction date is about 6 months before the date of King's wedding (Thursday, 18 June 1953).

1.3 Event #K2: King's DC speech in 1963

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On Wednesday, 28 August 1963, Martin Luther King Jr. delivered his famous "I Have A Dream" speech during the March on Washington for Jobs and Freedom. By this date, King had lived through 8 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, 1952, 1956, and 1960). It follows that on the date of his speech, King's sidereal age was about

$$\begin{aligned} &\frac{[(8 \times 366) + (26 \times 365) + 16 + 28 + 31 + 30 + 31 + 30 + 31 + 28] \text{ days}}{365.256363 \text{ days/yr}} \\ &\approx 34.61405 \text{ yrs} . \end{aligned}$$

On applying Technique #PD1 for $A \approx 34.61405$, we get

$$\begin{aligned} (3.98907826 \times A) \text{ min} &\approx 138.07815 \text{ min} \approx 2.30130 \text{ hr} \\ &\approx 2 \text{ hr} + 18 \text{ min} + 5 \text{ sec} \end{aligned}$$

as the chart-change term with respect to the natal chart (FIGURE 1.1).

THE PRE-BIRTH CHART

For the pre-birth symbolic chart (FIGURE 1.3a), we subtract the chart-change term (2 hours, 18 minutes, and 5 seconds) from King's birth time of 12:00 pm, CST, thereby getting 09:41:55 am, CST. In this symbolic chart, we are looking for neo-converse primary directions that are associated with King's life around age 34. In this regard, we find a Saturn-PC10 conjunction.

In the pre-birth symbolic chart, the Saturn-PC10 conjunction is a neo-converse primary direction that may refer to King's DC speech. For natal Saturn (in FIGURE 1.1), we find the following:

[Natal] Saturn in PH8: Saturn is the lord of PH10 (achieving something significant; prestige; head persons) and PH11 (comrades and shared interests), and it is the natural representative of sober-minded action. Saturn lies in the intersection of PH8 (an ending that facilitates

transformation) and Sagittarius WS9 (spiritual or professional know-how). At his best, masculine Sagittarius is not afraid to go beyond his comfort zone and to take risks in order to achieve worthy goals. In light of the foregoing, Saturn refers to King as achieving something significant through transformative spiritual leadership to further the common good.

For pre-birth Saturn (in FIGURE 1.3a), we find the following:

[Pre-birth] Saturn in PH9: Saturn is the lord of PH11 (achieving something significant; head persons) and PH12 (trying situations), and it is the natural representative of sober-minded action. Saturn lies in the intersection of PH9 (spiritual or professional know-how) and Sagittarius WS10 (achieving something significant; prestige; head persons). In light of the foregoing, Saturn refers to King as achieving something significant through spiritual leadership to further the common good.

PC10 refers to achieving something significant, gaining prestige, and head persons, and the Saturn-PC10 conjunction refers to Saturn as being helpful to PC10.

FIGURE 1.3a: Pre-birth symbolic chart

(PC12) 01:25 Ve 17:35 Mo 25:29 WS12 AQ	Su 02:11 (PC11) 02:18 Me 18:45 WS11 CP	Sa 02:29 (PC10) 03:11 WS10 SA	(PC9) 02:18 WS9 SC	(PC8) 01:25 WS8 LI
(PC1) 00:33 WS1 PI	Martin Luther King Jr. (Sidereal) Pre-Birth Chart for Wed., 28 AUG 1963 Tuesday, 15 JAN 1929 at 09:41:55 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 00:33 WS7 VI
(PC2) 01:25 Ju 08:18 WS2 AR	(PC3) 02:18 Ma 29:03 R WS3 TA	(PC4) 03:11 WS4 GE	(PC5) 02:18 WS5 CN	(PC6) 01:25 WS6 LE

By trial and error, we find that the Saturn-PC10 conjunction becomes exact at about 09:38:50 am, CST (about 9.76972 *hr* CST) on Tuesday, 15 January 1929 (King's birth date). From 09:38:50 am, CST to 12:00 pm, CST (King's birth time), the time difference is

$$\text{elapsed time} = 2 \text{ hr} + 21 \text{ min} + 10 \text{ sec} \approx 141.16667 \text{ min}.$$

On making use of the Ptolemy time-key, this time difference corresponds to an age difference of

$$\begin{aligned}
 \text{elapsed age} &\approx \frac{1 \text{ yr of age}}{3.98907826 \text{ min}} \times 141.16667 \text{ min} \approx 35.38829 \text{ yrs} \\
 &= 35 \text{ yrs} + \left(0.38829 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 35 \text{ yrs} + 141.82539 \text{ days},
 \end{aligned}$$

and so the neo-converse Saturn-PC10 conjunction predicts an event to occur about 142 days after Wednesday, 15 January 1964 (King's 35th birthday), which is on Friday, 05 June 1964 (Day 157 of 1964). This prediction date is about 9 months after the date of King's DC speech (Wednesday, 28 August 1963).

THE POST-BIRTH CHART

For the post-birth symbolic chart (FIGURE 1.3b), we add the chart-change term (2 hours, 18 minutes, and 5 seconds) to King's birth time of 12:00 pm, CST, thereby getting 02:18:05 pm, CST. In this symbolic chart, we are looking for direct primary directions that are associated with King's life around age 34. In this regard, we find a Mars-PC1 conjunction.

FIGURE 1.3b: Post-birth symbolic chart

Ju 08:19 (PC12) 22:59	(PC11) 16:33	(PC10) 10:07 Ve 17:48 Mo 27:58	Su 02:22 (PC9) 16:33 Me 19:02	Sa 02:30 (PC8) 22:59
WS12 AR	WS11 PI	WS10 AQ	WS9 CP	WS8 SA
Ma 29:01 R (PC1) 29:25	Martin Luther King Jr. (Sidereal) Post-Birth Chart for Wed., 28 AUG 1963 Tuesday, 15 JAN 1929 at 14:18:05 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 29:25
WS1 TA				WS7 SC
(PC2) 22:59	(PC3) 16:33	(PC4) 10:07	(PC5) 16:33	(PC6) 22:59
WS2 GE	WS3 CN	WS4 LE	WS5 VI	WS6 LI

In the post-birth symbolic chart, the Mars-PC1 conjunction is a direct primary direction that may refer to King's DC speech. For natal Mars (in FIGURE 1.1), we find the following:

[Natal] Mars in PH2: Mars is the lord of PH1 (the native's well-being) and PH8 (an ending that facilitates transformation), and it is the natural representative of energetic assertive action. Mars lies in the intersection of PH2 and Taurus WS2, both houses referring to supportive persons or things. At her best, feminine Taurus is doggedly determined to make tangible progress in achieving a better quality of life. In light of the foregoing, Mars refers to King as enthusiastically engaging in self-betterment.

For post-birth Mars (in FIGURE 1.3b), we find the following:

[Post-birth] Mars in PH12: Mars is the lord of PH7 (partnerships; divine cooperation) and PH12 (trying situations), and it is the natural representative of energetic assertive action. Mars lies in the intersection of PH12 (trying situations) and Aquarius WS1 (the native's well-being).

In light of the foregoing, Mars refers to King as partnering with others in order to boldly deal with trying situations.

PC1 refers to the native's well-being, and the Mars-PC1 conjunction refers to Mars as being helpful to PC1.

By trial and error, we find that the Mars-PC1 conjunction becomes exact at about 02:16:28 pm, CST (about 14.27444 *hr* CST) on Tuesday, 15 January 1929 (King's birth date). From 12:00 pm, CST (King's birth time) to 02:16:28 pm, CST, the time difference is

$$\text{elapsed time} = 2 \text{ hr} + 16 \text{ min} + 28 \text{ sec} \approx 136.46667 \text{ min}.$$

On making use of the Ptolemy time-key, this time difference corresponds to an age difference of

$$\begin{aligned} \text{elapsed age} &\approx \frac{1 \text{ yr of age}}{3.98907826 \text{ min}} \times 136.46667 \text{ min} \approx 34.21008 \text{ yrs} \\ &= 34 \text{ yrs} + \left(0.21008 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 34 \text{ yrs} + 76.73306 \text{ days}, \end{aligned}$$

and so the direct Mars-PC1 conjunction predicts an event to occur about 77 days after Tuesday, 15 January 1963 (King's 34th birthday), which is on Tuesday, 02 April 1963 (Day 92 of 1963). This prediction date is about 5 months before the date of King's DC speech (Wednesday, 28 August 1963).

1.4 Event #K3: King's passing in 1968

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On Thursday, 04 April 1968, Martin Luther King Jr. was assassinated. By this date, King had lived through 10 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, 1952, 1956, 1960, 1964, and 1968). It follows that on the date of his passing, King's sidereal age was about

$$\frac{[(9 \times 366) + (30 \times 365) + 16 + 29 + 31 + 4] \text{ days}}{365.256363 \text{ days/yr}} \approx 39.21629 \text{ yrs}.$$

On applying Technique #PD1 for $A \approx 39.21629$, we get

$$\begin{aligned} (3.98907826 \times A) \text{ min} &\approx 156.43685 \text{ min} \approx 2.60728 \text{ hr} \\ &\approx 2 \text{ hr} + 36 \text{ min} + 26 \text{ sec} \end{aligned}$$

as the chart-change term with respect to the natal chart (FIGURE 1.1).

THE PRE-BIRTH CHART

For the pre-birth symbolic chart (FIGURE 1.4a), we subtract the chart-change term (2 hours, 36 minutes, and 26 seconds) from King's birth time of 12:00 pm, CST, thereby getting 09:23:34 am, CST. In this symbolic chart, we are looking for neo-converse primary directions that are associated with King's life around age 39. In this regard, we find a Mars-PC4 conjunction.

FIGURE 1.4a: Pre-birth symbolic chart

Su 02:10 Me 18:44 (PC12) 25:21 WS12 CP	Sa 02:29 (PC11) 27:09 WS11 SA	(PC10) 28:58 WS10 SC	(PC9) 27:09 WS9 LI	(PC8) 25:21 WS8 VI
Ve 17:34 (PC1) 23:33 Mo 25:19 WS1 AQ	Martin Luther King Jr. (Sidereal) Pre-Birth Chart for Thursday, 04 APR 1968 Tuesday, 15 JAN 1929 at 09:23:34 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 23:33 WS7 LE
(PC2) 25:21 WS2 PI	Ju 08:18 (PC3) 27:09 WS3 AR	(PC4) 28:58 Ma 29:03 R WS4 TA	(PC5) 27:09 WS5 GE	(PC6) 25:21 WS6 CN

In the pre-birth symbolic chart, the Mars-PC4 conjunction is a neo-converse primary direction that may refer to King passing away. For natal Mars (in FIGURE 1.1), we find the following:

[Natal] Mars in PH2: Mars is the lord of PH1 (the native) and PH8 (bodily death), and it is the natural representative of bodily injury. Mars lies in the intersection of PH2 and Taurus WS2, both houses referring to supportive persons or things. In light of the foregoing, Mars refers to death as coming to that which physically supports King's life.

For pre-birth Mars (in FIGURE 1.4a), we find the following:

[Pre-birth] Mars in PH3: Mars is the lord of PH3 (threats of bodily harm) and PH10 (being bound for bodily death). Note that with respect to the 4th House (being gravebound), the 10th House is the derived 7th House (bodily death or bodily harm), and the 3rd House is the derived 12th House (hidden enemies). Mars is the natural representative of hostile action and bodily injury. Mars lies in the intersection of PH3 (threats of bodily harm) and Taurus WS4 (being gravebound). In light of the foregoing, Mars refers to King as facing the threat of violent bodily death.

PC4 refers to being gravebound, and the Mars-PC4 conjunction refers to Mars as being helpful to PC4.

By trial and error, we find that the Mars-PC4 conjunction becomes exact at about 09:23:58 am, CST (about 9.39944 *hr* CST) on Tuesday, 15 January 1929 (King's birth date). From 09:23:58 am, CST to 12:00 pm, CST (King's birth time), the time difference is

$$\text{elapsed time} = 2 \text{ hr} + 36 \text{ min} + 2 \text{ sec} \approx 156.03333 \text{ min}.$$

On making use of the Ptolemy time-key, this time difference corresponds to an age difference of

$$\begin{aligned} \text{elapsed age} &\approx \frac{1 \text{ yr of age}}{3.98907826 \text{ min}} \times 156.03333 \text{ min} \approx 39.11513 \text{ yrs} \\ &= 39 \text{ yrs} + \left(0.11513 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 39 \text{ yrs} + 42.05197 \text{ days}, \end{aligned}$$

and so the neo-converse Mars-PC4 conjunction predicts an event to occur about 42 days after Monday, 15 January 1968 (King's 39th birthday), which is on Monday, 26 February 1968 (Day 57 of 1968). This prediction date is about 1 month before the date of King's passing (Thursday, 04 April 1968).

THE POST-BIRTH CHART

For the post-birth symbolic chart (FIGURE 1.4b), we add the chart-change term (2 hours, 36 minutes, and 26 seconds) to King's birth time of 12:00 pm, CST, thereby getting 02:36:26 pm, CST. In this symbolic chart, we are looking for direct primary directions that are associated with King's life around age 39. In this regard, we find nothing.

FIGURE 1.4b: Post-birth symbolic chart

Ma 29:01 R WS12 TA	Ju 08:19 (PC12) 27:31 WS11 AR	(PC11) 21:15 WS10 PI	(PC10) 15:00 Ve 17:49 Mo 28:08 WS9 AQ	Su 02:23 Me 19:03 (PC9) 21:15 WS8 CP
(PC1) 03:47 (PC2) 27:31 WS1 GE	Martin Luther King Jr. (Sidereal) Post-Birth Chart for Thursday, 04 APR 1968 Tuesday, 15 JAN 1929 at 14:36:26 CST Atlanta, GA (33° 45' N; 84° 23' W)			Sa 02:30 (PC7) 03:47 (PC8) 27:31 WS7 SA
(PC3) 21:15 WS2 CN	(PC4) 15:00 WS3 LE	(PC5) 21:15 WS4 VI	(PC6) 27:31 WS5 LI	WS6 SC

That's it!

1.5 Birth-time rectification

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The verb 'rectify' means 'to make right'. **Birth-time rectification** is the process of adjusting the native's birth time so that suitable planetary patterns coincide with actual life events. In this

section, we will use Events #K1, #K2, and #K3 to rectify King's birth time. In this regard, we will be taking 'suitable planetary patterns' to mean major planet-to-angle primary directions according to Technique #PD1 (of Section 1.1).

Our process of rectifying the birth time is based on the model equation

$$y = x + b ,$$

whose graph is a straight line having a slope value of 1 and an intercept value of b . For the native at A sidereal years of age, the quantity x is the chart-addition term, which is given by

$$x = \begin{cases} -(3.98907826 \times A) \text{ min} & \text{for a pre-birth symbolic chart} \\ +(3.98907826 \times A) \text{ min} & \text{for a post-birth symbolic chart} . \end{cases}$$

It is advisable here to express x in hours. For a given value of x , the quantity y is the time at which an associated primary direction becomes exact. The constant b is the rectified birth time. It is advisable here to express y and b in hours according to the 24-hour time format. TABLE 1.5 presents the xy pairs pertaining to our three events of interest.

TABLE 1.5: Data points for King's birth-time rectification

Event	Age (in yrs)	x (in hrs)	y (in hrs)
#K1	24.42120	+1.62363	13.59194
#K2	34.61405	−2.30130	9.76972
#K2	34.61405	+2.30130	14.27444
#K3	39.21629	−2.60728	9.39944

Each xy pair in the table is a data point. The technique of linear regression enables us to find the straight line that best accommodates our four data points. In this regard, we find that the equation of our best line is

$$y \approx (0.985366778)x + 12.0011990 .$$

On comparing this equation with the model equation $y = x + b$, we see that 0.985366778 (the best-line's slope) approximates the number 1 (the model-line's slope). Moreover, we see that 12.0011990 (the best-line's intercept) approximates b (the model-line's intercept):

$$b \approx 12.0011990 \text{ hr} \approx 12 \text{ hr} + 0 \text{ min} + 2 \text{ sec} .$$

Therefore, King's rectified birth time is about 12:00:02 pm, CST.

The birth-time rectification here is based on four data points. The more data points that we use for the linear regression, the better we can adjust the birth time.

2. SOLAR AND LUNAR RETURNS

2.1 King's 1968 solar return

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The native's **solar return** (SR) is Sun's annual return to its natal position. This return occurs on or close to the native's birthday. A solar-return year spans the time interval from one solar return to the next one. In astrology, the noun '**transit**' refers to the ongoing movement of a planet across the sky. In working with transits, we look at current planetary positions. A **solar-return chart** is a transit chart that is cast for the time when a solar return occurs, and we take it to represent the entire associated solar-return year.

FIGURE 2.1: King's 1968 SR chart

(PC12) 16:00 Sa 13:33	(PC11) 10:43 Ma 12:19	Su 02:16 (PC10) 05:27 Me 14:02	(PC9) 10:43	(PC8) 16:00 Ve 24:27
WS12 PI	WS11 AQ	WS10 CP	WS9 SA	WS8 SC
(PC1) 21:16 WS1 AR	Martin Luther King Jr. Solar-Return Chart for Age 39 (Sidereal) Tuesday, 16 JAN 1968 at 13:00:30 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 21:16 WS7 LI
(PC2) 16:00 WS2 TA	(PC3) 10:43 WS3 GE	(PC4) 05:27 Mo 15:18 WS4 CN	(PC5) 10:43 Ju 11:25 R WS5 LE	(PC6) 16:00 WS6 VI

On Monday, 15 January 1968, Martin Luther King Jr. reached age 39. In order to find the time of the SR chart, we will make use of tropical ecliptic longitudes as a means to an end. At King's birth time, Sun's sidereal ecliptic longitude is $272^{\circ} 16' 59''$. At King's 1968 SR time, Sun's sidereal ecliptic longitude is the natal value of $272^{\circ} 16' 59''$, and the *ayanāṃśa* is $23^{\circ} 23' 44''$ according to True Chitrā 0° Libra. On adding this *ayanāṃśa* to Sun's sidereal ecliptic longitude, we get the SR tropical value of $295^{\circ} 40' 43''$. We find that Sun's tropical ecliptic longitude is $295^{\circ} 40' 43''$ on Tuesday, 16 January 1968 at 01:00:30 pm, EST. FIGURE 2.1 presents King's 1968 SR chart according to the sidereal zodiac.

Let's adapt Technique #PD1 (of Section 1.1) for use with solar-return charts. Primary motion is related to Earth's axial rotation, which has a time rate of

$$\frac{360 \text{ deg}}{1436.068175 \text{ min}} \approx \frac{1 \text{ deg}}{3.98907826 \text{ min}},$$

Solar returns are related to Earth's orbital motion about Sun, which has a time rate of

$$\frac{360 \text{ deg}}{365.256363 \text{ days}} \approx \frac{1 \text{ deg}}{1.01460101 \text{ days}}.$$

Note that a **sidereal year** is the time taken by Earth to complete its orbit about Sun relative to the fixed stars, and it consists of 365 mean solar days, 6 hours, 9 minutes, and 9.8 seconds (which is about 365.256363 mean solar days). The **SR time-key** is the notion that each degree of Earth's axial rotation corresponds to each degree of Earth's orbital motion. Therefore, according to the SR time-key, every addition of about 3.98907826 minutes to the SR time symbolically advances the SR chart by 1.01460101 mean solar days of age. It follows that every addition of about 3.93167189 minutes to the SR time symbolically advances the SR chart by one mean solar day of age.

The notion of SR primary directions gives rise to the following technique:

Technique #PD2: In order to examine the native's life around D mean solar days after the SR date, cast symbolic charts for about $(3.93167189 \times D)$ minutes before and after the SR time. In these symbolic charts, look for major planet-to-angle aspects, taking the margin of inexactness to be about 01° . These major aspects are primary directions that each predict an event to occur in the native's life around D days after the SR date.

The primary directions that are shown in the pre-SR symbolic chart are said to be *neo-converse*. The primary directions that are shown in the post-SR symbolic chart are said to be *direct*.

2.2 Event #K3: SR primary directions

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On Thursday, 04 April 1968, Martin Luther King Jr. was assassinated. Having found a pertinent primary direction at the natal-chart level (in Section 1.4), we can legitimately look for pertinent primary directions at the SR-chart level. In this regard, let's apply Technique #PD2 together with hindsight. From Tuesday, 16 January 1968 (the SR date) to Thursday, 04 April 1968 (the date of King's passing), there are 79 mean solar days. On applying Technique #PD2 for $D = 79$, we get

$$(3.93167189 \times D) \text{ min} \approx 310.60208 \text{ min} \approx 5 \text{ hr} + 10 \text{ min} + 36 \text{ sec}$$

as the chart-change term with respect to the SR chart (FIGURE 2.1).

THE PRE-SR CHART

For the pre-SR symbolic chart (FIGURE 2.2a), we subtract the chart-change term (5 hours, 10 minutes, and 36 seconds) from the SR time of 01:00:30 pm, EST, thereby getting 07:49:54 am, EST. In this symbolic chart, we are looking for neo-converse primary directions that are associated with King's life around the date of his passing. In this regard, we find a Sun-PC1 conjunction.

In the pre-SR symbolic chart, the Sun-PC1 conjunction is a neo-converse primary direction that may refer to King passing away. For SR Sun (in FIGURE 2.1), we find the following:

[SR] Sun in PH9: Sun is the lord of PH5 (supportive factors to being gravebound), and it is the natural representative of vitality. Note that with respect to the 4th House (being gravebound), the 5th House is the derived 2nd House (supportive persons or things). Sun lies in the intersection of PH9 (being subject to deadly influences) and Capricorn WS10 (being bound for bodily death). Note that with respect to the 4th House (being gravebound), the 9th House is the derived 6th House (being subject to unwholesome influences), and the 10th House is the derived 7th House (bodily death or bodily harm). In light of the foregoing, Sun refers to bodily death as a result of deadly influences.

For pre-SR Sun (in FIGURE 2.2a), we find the following:

[Pre-SR] Sun in PH12: Sun is the lord of PH8 (bodily death), and it is the natural representative of vitality. Sun lies in the intersection of PH12 (hidden enemies) and Capricorn WS1 (bodily life or bodily health). In light of the foregoing, Sun refers to bodily death at the hands of hidden enemies.

PC1 refers to bodily life or bodily health, and the Sun-PC1 conjunction refers to King as facing the threat of bodily death at the hands of hidden enemies.

FIGURE 2.2a: Pre-SR symbolic chart

(PC12) 09:21 WS12 SA	(PC11) 15:46 Ve 24:11 WS11 SC	(PC10) 22:11 WS10 LI	(PC9) 15:46 WS9 VI	(PC8) 09:21 Ju 11:25 R WS8 LE
Su 02:03 (PC1) 02:56 Me 13:40 WS1 CP	Martin Luther King Jr. (Sidereal) Pre-SR Chart for Thursday, 04 APR 1968 Tuesday, 16 JAN 1968 at 07:49:54 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 02:56 Mo 12:26 WS7 CN
(PC2) 09:21 Ma 12:09 WS2 AQ	Sa 13:32 (PC3) 15:46 WS3 PI	(PC4) 22:11 WS4 AR	(PC5) 15:46 WS5 TA	(PC6) 09:21 WS6 GE

By trial and error, we find that the Sun-PC1 conjunction becomes exact at about 07:46:43 am, EST on Tuesday, 16 January 1968 (the SR date). From 07:46:43 am, EST to 01:00:30 pm, EST (the SR time), the time difference is

$$\text{elapsed time} = 5 \text{ hr} + 13 \text{ min} + 47 \text{ sec} \approx 313.78333 \text{ min}.$$

On making use of the SR time-key, this time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1 \text{ day of age}}{3.93167189 \text{ min}} \times 313.78333 \text{ min} \approx 79.80913 \text{ days},$$

and so the neo-converse Sun-PC1 conjunction predicts an event to occur about 80 days after Tuesday, 16 January 1968 (the SR date), which is on Friday, 05 April 1968. This prediction date is 1 day after the date of King's passing (Thursday, 04 April 1968).

THE POST-SR CHART

For the post-SR symbolic chart (FIGURE 2.2b), we add the chart-change term (5 hours, 10 minutes, and 36 seconds) to the SR time of 01:00:30 pm, EST, thereby getting 06:11:06 pm, EST. In this symbolic chart, we are looking for direct primary directions that are associated with King's life around the date of his passing. In this regard, we find nothing.

FIGURE 2.2b: Post-SR symbolic chart

	(PC12) 27:16	(PC11) 23:50	Sa 06:57 (PC10) 20:24	Ma 05:53 (PC9) 26:18
WS12 CN	WS11 GE	WS10 TA	WS9 AR	WS8 PI
(PC1) 00:42 Mo 11:33 (PC2) 27:16 WS1 LE	Martin Luther King Jr. (Sidereal) Post-SR Chart for Thursday, 04 APR 1968 Tuesday, 16 JAN 1968 at 18:11:06 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 00:42 Me 07:47 (PC8) 27:16 WS7 AQ
Ju 04:47 R (PC3) 23:50 WS2 VI	(PC4) 20:24 WS3 LI	(PC5) 23:50 WS4 SC	Ve 18:06 (PC6) 27:16 WS5 SA	Su 25:53 WS6 CP

Let's move on!

2.3 King's last lunar return

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The native's **lunar return** (LR) is Moon's monthly return to its natal position. A lunar-return month spans the time interval from one lunar return to the next one. A **lunar-return chart** is a transit chart that is cast for the time when a lunar return occurs, and we take it to represent the entire associated lunar-return month.

FIGURE 2.3: King's last LR chart

(PC12) 09:43 Me 19:43 Ve 21:16 Mo 26:44 WS12 AQ	(PC11) 09:14 WS11 CP	(PC10) 08:45 WS10 SA	(PC9) 09:14 WS9 SC	(PC8) 09:43 WS8 LI
(PC1) 10:12 Su 13:27 Sa 20:52 WS1 PI	Martin Luther King Jr. Last Lunar-Return Chart (Sidereal) Wednesday, 27 MAR 1968 at 06:27:08 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 10:12 WS7 VI
Ma 06:13 (PC2) 09:43 WS2 AR	(PC3) 09:14 WS3 TA	(PC4) 08:45 WS4 GE	(PC5) 09:14 WS5 CN	Ju 03:25 R (PC6) 09:43 WS6 LE

On Thursday, 04 April 1968, Martin Luther King Jr. passed away. Let's cast the lunar-return chart for King around April 1968. In order to find the time of the LR chart, we will make use of tropical ecliptic longitudes as a means to an end. At King's birth time, Moon's sidereal ecliptic longitude is $326^{\circ} 44' 06''$. At King's pertinent LR time, Moon's sidereal ecliptic longitude is the natal value of $326^{\circ} 44' 06''$, and the *ayanāṃśa* is $23^{\circ} 24' 13''$ according to True Chitrā 0° Libra. On adding this *ayanāṃśa* to Moon's sidereal ecliptic longitude, we get the LR tropical value of $350^{\circ} 08' 19''$. We find that Moon's tropical ecliptic longitude is $350^{\circ} 08' 19''$ on Wednesday, 27 March 1968 at 06:27:08 am, EST. FIGURE 2.3 presents King's last LR chart according to the sidereal zodiac.

Let's adapt Technique #PD1 (of Section 1.1) for use with lunar-return charts. Primary motion is related to Earth's axial rotation, which has a time rate of

$$\frac{360 \text{ deg}}{1436.068175 \text{ min}} \approx \frac{1 \text{ deg}}{3.98907826 \text{ min}}$$

Lunar returns are related to Moon's orbital motion about Earth, which has a time rate of

$$\frac{360 \text{ deg}}{27.3216620 \text{ days}} \approx \frac{1 \text{ deg}}{0.0758935056 \text{ day}}$$

Note that a **sidereal month** consists of 27 mean solar days, 7 hours, 43 minutes, and 11.6 seconds (which is about 27.3216620 mean solar days). The **LR time-key** is the notion that each degree of Earth's axial rotation corresponds to each degree of Moon's orbital motion. Therefore, according to the LR time-key, every addition of about 3.98907826 minutes to the LR time symbolically advances the LR chart by 0.0758935056 mean solar days of age. It follows that every addition of about 52.5615233 minutes to the LR time symbolically advances the LR chart by one mean solar day of age.

The notion of LR primary directions gives rise to the following technique:

Technique #PD3: In order to examine the native's life around D mean solar days after the LR date, cast symbolic charts for about $(52.5615233 \times D)$ minutes before and after the LR time. In these symbolic charts, look for major planet-to-angle aspects, taking the margin of inexactness to be about 01° . These major aspects are primary directions that each predict an event to occur in the native's life around D days after the LR date.

The primary directions that are shown in the pre-LR symbolic chart are said to be *neo-converse*. The primary directions that are shown in the post-LR symbolic chart are said to be *direct*.

2.4 Event #K3: LR primary directions

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On Thursday, 04 April 1968, Martin Luther King Jr. was assassinated. Having found pertinent primary directions firstly at the natal-chart level (in Section 1.4) and secondly at the SR-chart level (in Section 2.2), we can legitimately look for pertinent primary directions at the LR-chart level. In this regard, let's apply Technique #PD3 together with hindsight. From Wednesday, 27 March 1968 (the LR date) to Thursday, 04 April 1968 (the date of King's passing), there are 8 mean solar days. On applying Technique #PD3 for $D = 8$, we get

$$(52.5615233 \times D) \text{ min} \approx 420.49219 \text{ min} \approx 7 \text{ hr} + 0 \text{ min} + 30 \text{ sec}$$

as the chart-change term with respect to the LR chart (FIGURE 2.3).

THE PRE-LR CHART

For the pre-LR symbolic chart (FIGURE 2.4a), we subtract the chart-change term (7 hours, 0 minutes, and 30 seconds) from the LR time of 06:27:08 am, EST, thereby getting 11:26:38 pm, EST on the previous day. In this symbolic chart, we are looking for neo-converse primary directions that are associated with King's life around March/April 1968. In this regard, we find a Moon-PC4 conjunction.

In the pre-LR symbolic chart, the Moon-PC4 conjunction is a neo-converse primary direction that may refer to King passing away. For LR Moon (in FIGURE 2.3), we find the following:

[LR] Moon in PH12: Moon is the lord of PH5 (being subject to hidden threats), and it is the natural representative of vulnerability. Note that with respect to the 12th House (hidden enemies), the 5th House is the derived 6th House (being subject to unwholesome influences). Moon lies at the intersection of PH12 and Aquarius WS12, both houses referring to hidden enemies. In light of the foregoing, Mars refers to King as facing the threat of violent bodily death.

For pre-LR Moon (in FIGURE 2.4a), we find the following:

[Pre-LR] Moon in PH4: Moon is the lord of PH9 (being subject to deadly influences), and it is the natural representative of vulnerability. Note that with respect to the 4th House (being gravebound), the 9th House is the derived 6th House (being subject to unwholesome

influences). Moon lies in the intersection of PH4 and Aquarius WS4, both houses referring to being gravebound. In light of the foregoing, Moon refers to King as being vulnerable to deadly influences.

PC4 refers to being gravebound, and the Moon-PC4 conjunction refers to Moon as being helpful to PC4.

FIGURE 2.4a: Pre-LR symbolic chart

(PC12) 14:36 WS12 LI	(PC11) 18:30 WS11 VI	Ju 03:26 R (PC10) 22:24 WS10 LE	(PC9) 18:30 WS9 CN	(PC8) 14:36 WS8 GE
(PC1) 10:41 WS1 SC	Martin Luther King Jr. (Sidereal) Pre-LR Chart for Thursday, 04 APR 1968 Tuesday, 26 MAR 1968 at 23:26:38 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 10:41 WS7 TA
(PC2) 14:36 WS2 SA	(PC3) 18:30 WS3 CP	Me 19:18 Ve 20:55 (PC4) 22:24 Mo 23:04 WS4 AQ	Su 13:10 (PC5) 18:30 Sa 20:50 WS5 PI	Ma 06:00 WS6 AR

By trial and error, we find that the Moon-PC4 conjunction becomes exact at about 11:29:12 pm, EST on Tuesday, 26 March 1968. From 11:29:12 pm, EST (Tuesday) to 06:27:08 am, EST (the LR time on Wednesday), the time difference is

$$\text{elapsed time} = 6 \text{ hr} + 57 \text{ min} + 56 \text{ sec} \approx 417.93333 \text{ min}.$$

On making use of the LR time-key, this time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1 \text{ day of age}}{52.5615233 \text{ min}} \times 417.93333 \text{ min} \approx 7.95132 \text{ days},$$

and so the neo-converse Moon-PC4 conjunction predicts an event to occur about 8 days after Wednesday, 27 March 1968 (the LR date), which is on Thursday, 04 April 1968. This prediction date is the date of King's passing.

THE POST-LR CHART

For the post-LR symbolic chart (FIGURE 2.4b), we add the chart-change term (7 hours, 0 minutes, and 30 seconds) to the LR time of 06:27:08 am, EST, thereby getting 01:27:38 pm, EST. In this symbolic chart, we are looking for direct primary directions that are associated with King's life around March/April 1968. In this regard, we find a Mars-PC1 square.

FIGURE 2.4b: Post-LR symbolic chart

(PC12) 02:53 WS12 GE		Ma 06:26 (PC11) 29:22 WS10 AR	Mo 00:22 Su 13:44 Sa 20:54 (PC10) 25:51 WS9 PI	(PC8) 02:53 Me 20:09 Ve 21:38 (PC9) 29:22 WS8 AQ
(PC1) 06:25 WS1 CN	Martin Luther King Jr. (Sidereal) Post-LR Chart for Thursday, 04 APR 1968 Wednesday, 27 MAR 1968 at 13:27:38 EST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 06:25 WS7 CP
(PC2) 02:53 Ju 03:24 R (PC3) 29:22 WS2 LE	(PC4) 25:51 WS3 VI	(PC5) 29:22 WS4 LI		(PC6) 02:53 WS6 SA

In the post-LR symbolic chart, the Mars-PC1 square is a direct primary direction that may refer to King passing away. For LR Mars (in FIGURE 2.3), we find the following:

[LR] Mars in PH1: Mars is the lord of PH2 (supportive persons or things) and PH9 (supportive factors to bodily death), and it is the natural representative of hostile action and bodily injury. Note that with respect to the 2nd House (supportive persons or things), the 9th House is the derived 8th House (bodily death). Mars lies in the intersection of PH1 (bodily life or bodily health) and Aries WS2 (supportive persons or things). In light of the foregoing, Mars refers to King as facing the threat of violent bodily death.

For post-LR Mars (in FIGURE 2.4b), we find the following:

[Post-LR] Mars in PH10: Mars is the lord of PH11 (injury related to personal interests) and WS5 (personal interests), and it is the natural representative of hostile action and bodily injury. Note that with respect to the 5th House (personal interests), the 11th House is the derived 7th House (bodily death or bodily harm). Mars lies in the intersection of PH10 and Aries WS10, both houses referring to being subject to unwholesome influences because of personal interests. Note that with respect to the 5th House (personal interests), the 10th House is the derived 6th House (being subject to unwholesome influences). In light of the foregoing, Mars refers to King as facing the threat of violent bodily injury because of his personal interests.

PC1 refers to bodily life or bodily health, and the Mars-PC1 square refers to Mars bringing PC1 into line with its agenda of bodily injury.

By trial and error, we find that the Mars-PC1 square becomes exact at about 01:27:43 pm, EST on Wednesday, 27 March 1968 (the LR date). From 06:27:08 am, EST (the LR time) to 01:27:43 pm, EST, the time difference is

$$\text{elapsed time} = 7 \text{ hr} + 0 \text{ min} + 35 \text{ sec} \approx 420.58333 \text{ min} .$$

On making use of the LR time-key, this time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1 \text{ day of age}}{52.5615233 \text{ min}} \times 420.58333 \text{ min} \approx 8.00173 \text{ days} ,$$

and so the direct Mars-PC1 square predicts an event to occur about 8 days after Wednesday, 27 March 1968 (the LR date), which is on Thursday, 04 April 1968. This prediction date is the date of King's passing.

3. THE METHOD OF PROPORTIONAL SEMI-ARCS

3.1 Introduction

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FIGURE 3.1 presents the natal chart of Martin Luther King Jr. according to the tropical zodiac. Note that Atlanta was in the Central Time Zone until legislation switched it to the Eastern Time Zone on Friday, 21 March 1941.

FIGURE 3.1: King's natal chart (tropical)

(PC12) 08:36 WS12 AR	(PC11) 03:24 Ve 10:33 Mo 19:35 WS11 PI	Me 11:45 WS10 AQ	(PC9) 03:24 Su 25:08 (PC10) 28:12 WS9 CP	(PC8) 08:36 Sa 25:21 WS8 SA
Ju 01:10 (PC1) 13:48 WS1 TA	Martin Luther King Jr. Natal Chart (Tropical Zodiac) Tuesday, 15 JAN 1929 at 12:00 CST Atlanta, GA (33° 45' N; 84° 23' W)			(PC7) 13:48 WS7 SC
(PC2) 08:36 Ma 21:53 R WS2 GE	(PC3) 03:24 (PC4) 28:12 WS3 CN	WS4 LE	(PC5) 03:24 WS5 VI	(PC6) 08:36 WS6 LI

In this chapter, we will use natal primary directions together with hindsight in order to examine three particular events in the life of Martin Luther King Jr. These events are: Event #K1 (King's wedding day in 1953), Event #K2 (King's DC speech in 1963), and Event #K3 (King's passing in 1968).

Earth's axial rotation gives rise to primary motion. From the point of view of an earthbound observer, we may view primary motion as causing the zodiacal belt (with the planets attached to it) to rotate backward through fixed houses of the local sky. It is useful here to imagine two celestial spheres that occupy the same volume of space – the active sphere and the fixed sphere. The **active sphere** is the celestial sphere undergoing its usual axial rotation according to primary motion. The **fixed sphere** is the celestial sphere as it appeared at a specific time of interest, which

could be a birth time, a solar-return time, or a lunar-return time. Primary motion moves the active sphere across the stationary fixed sphere.

A primary direction is associated with a predicted event, and it involves primary motion directing a given point of the active sphere backward through the houses toward a given point of the fixed sphere. One of these two points is called the **significator**, and it indicates the area of life in which the predicted event will occur. The other point is called the **promissor**, and it indicates that which promises (that is, gives grounds for expecting) the predicted event. A primary direction is said to be **direct** if primary motion directs a promissor lying in the active sphere toward a significator lying in the fixed sphere. A primary direction is said to be **traditionally converse** if primary motion directs a significator lying in the active sphere toward a promissor lying in the fixed sphere. A primary direction is said to be **neo-converse** if reversed primary motion (which is a what-if notion) directs a promissor lying in the active sphere toward a significator lying in the fixed sphere.

In this chapter, we will be dealing with primary directions according to the method of proportional semi-arcs, which is mathematically explained in Appendix A.

The **arc of direction** is the circular path along which primary motion directs the active point (which lies in the active sphere) toward the fixed point (which lies in the fixed sphere). A primary direction is associated with a predicted event, and the angular extent of the associated arc of direction is related to the time when the event is predicted to occur.

3.2 Event #K1: the natal Mars-PC10 trine

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On Thursday, 18 June 1953, Martin Luther King Jr. married Coretta Scott, who would later become a civil-rights leader in her own right. In Section 1.2, we examined the Mars-PC10 trine as a direct primary direction that was associated with King's wedding. Regarding King's natal chart (FIGURE 3.1), the Mars-PC10 trine is a direct primary direction in which Mars's dexter-trine copy (MDTC) is the promissor and PC10 (the Midheaven) is the significator. Both MDTC and PC10 lie in the upper eastern sky. From Section A6, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC} ,$$

where the subscript P refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. Between Tuesday, 15 January 1929 at 12:00 CST (or 18:00 UTC) and the epoch J2000.0 (Saturday, 01 January 2000 at approximately 12:00 UTC), there is the rest of 1929 and 17 leap years and 53 normal years. It follows that the elapsed time in Julian years is

$$\frac{\left[\left(\frac{6}{24} + 350\right) + (17 \times 366) + (53 \times 365)\right] \text{ days}}{365.25 \text{ days/yr}} \approx 70.9575633 \text{ yrs} ,$$

and so the number of Julian centuries since the epoch J2000.0 is

$$T \approx -\frac{70.9575633 \text{ yrs}}{100 \text{ yrs}} = -0.709575633.$$

On making use of the obliquity formula in Section A1, we get

$$\begin{aligned} \varepsilon &\approx 23^\circ 26' 21.406'' - 46.836769'' \times (-0.709575633) \\ &\approx 23^\circ 26' 21.406'' + 33.2342300'' = 23^\circ 26' 54.6402300'' \\ &\approx 23.4485112^\circ \approx 23.44851^\circ. \end{aligned}$$

Note that T is positive for dates after the epoch and negative for dates before the epoch.

Secondly, let's use pertinent formulas of Section A1 to deal with Mars's dexter-trine copy (MDTC). In the tropical natal chart (FIGURE 3.1), Mars is at Gemini $21^\circ 53' 50''$ with an ecliptic latitude of $+03^\circ 26' 17''$. MDTC is at Aquarius $21^\circ 53' 50''$ with a Bianchini ecliptic latitude of $(+03^\circ 26' 17'') \times \cos 120^\circ = -01^\circ 43' 8.5''$. Therefore, we have

$$\lambda_p = 321^\circ 53' 50'' \approx 321.89722^\circ, \quad \beta_p = -01^\circ 43' 8.5'' \approx -1.71903^\circ.$$

We find that MDTC's declination is

$$\begin{aligned} \delta_p &= \arcsin(\sin \varepsilon \times \cos \beta_p \times \sin \lambda_p + \cos \varepsilon \times \sin \beta_p) \\ &\approx \arcsin[\sin 23.44851^\circ \times \cos(-1.71903^\circ) \times \sin 321.89722^\circ \\ &\quad + \cos 23.44851^\circ \times \sin(-1.71903^\circ)] \\ &\approx -15.84045^\circ. \end{aligned}$$

The equinoctial distance here is

$$\begin{aligned} (ED)_p &= \arccos\left(\frac{\cos \beta_p \times \cos \lambda_p}{\cos \delta_p}\right) \approx \arccos\left[\frac{\cos(-1.71903^\circ) \times \cos 321.89722^\circ}{\cos(-15.84045^\circ)}\right] \\ &\approx 35.15486^\circ. \end{aligned}$$

Because $\lambda_p > 180^\circ$, we get $(RA)_p = 360^\circ - (ED)_p \approx 324.84514^\circ$ as MDTC's right ascension.

Thirdly, let's use pertinent formulas of Section A1 to deal with PC10 (the Midheaven). In the tropical natal chart (FIGURE B1), the Midheaven is at Capricorn $28^\circ 12' 25''$ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{MC} = 298^\circ 12' 25'' \approx 298.20694^\circ, \quad \beta_{MC} = 0^\circ.$$

We find that the Midheaven's declination is

$$\begin{aligned} \delta_{MC} &= \arcsin(\sin \varepsilon \times \cos \beta_{MC} \times \sin \lambda_{MC} + \cos \varepsilon \times \sin \beta_{MC}) \\ &\approx \arcsin(\sin 23.44851^\circ \times \cos 0^\circ \times \sin 298.20694^\circ + \cos 23.44851^\circ \times \sin 0^\circ) \\ &\approx -20.52828^\circ. \end{aligned}$$

The equinoctial distance here is

$$(ED)_{MC} = \arccos\left(\frac{\cos \beta_{MC} \times \cos \lambda_{MC}}{\cos \delta_{MC}}\right) \approx \arccos\left[\frac{\cos 0^\circ \times \cos 298.20694^\circ}{\cos(-20.52828^\circ)}\right] \\ \approx 59.68811^\circ.$$

Because $\lambda_{MC} > 180^\circ$, we get $(RA)_{MC} = 360^\circ - (ED)_{MC} \approx 300.31189^\circ$ as the Midheaven's right ascension.

Now we are ready to deal with the arc of direction for the direct Mars-PC10 trine. We find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC} \approx 324.84514^\circ - 300.31189^\circ = 24.53325^\circ.$$

According to the Ptolemy time-key, this arc indicates

$$24.53325 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} \approx 24.53325 \text{ yrs of age} \\ = 24 \text{ yrs} + \left(0.53325 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}}\right) \approx 24 \text{ yrs} + 194.77296 \text{ days},$$

and so the direct Mars-PC10 trine predicts an event to occur about 195 days after Thursday, 15 January 1953 (King's 24th birthday), which is on Wednesday, 29 July 1953 (Day 210 of 1953). This prediction date is about 1 month after the date of King's wedding (Thursday, 18 June 1953).

3.3 Event #K2: The natal Saturn-PC10 conjunction

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On Wednesday, 28 August 1963, Martin Luther King Jr. delivered his famous "I Have A Dream" speech during the March on Washington for Jobs and Freedom. In Section 1.3, we examined the Saturn-PC10 conjunction as a neo-converse primary direction that was associated with King's DC speech. Regarding King's natal chart (FIGURE 3.1), the Saturn-PC10 conjunction is a converse primary direction in which Saturn is the promissor and PC10 (the Midheaven) is the significator. Both Saturn and PC10 lie in the upper western sky.

If we take the Saturn-PC10 conjunction to be traditionally converse, then the active point is PC10 and the fixed point is Saturn. From Section A5, we find that

$$\text{arc of direction} = (r_P - r_{MC}) \times (DSA)_{MC}$$

where $(DSA)_{MC} = 90^\circ + (AD)_{MC}$ and

$$r_P = -\frac{(RA)_P - (RA)_{MC}}{90^\circ + (AD)_P}, \quad r_{MC} = -\frac{(RA)_{MC} - (RA)_{MC}}{90^\circ + (AD)_{MC}} = 0.$$

It follows that

$$\text{arc of direction} = [(RA)_{MC} - (RA)_P] \times \frac{90^\circ + (AD)_{MC}}{90^\circ + (AD)_P}.$$

Note that the subscript P refers to the promissor.

If we take the Saturn-PC10 conjunction to be neo-converse, then we use the negative of the formula that we would get if the primary direction were direct, and so

$$\text{arc of direction} = -[(RA)_P - (RA)_{MC}] = (RA)_{MC} - (RA)_P ,$$

where the subscript P refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. In this regard, we previously found in Section 3.2 that $\varepsilon \approx 23.44851^\circ$.

Secondly, let's use pertinent formulas of Section A1 to deal with Saturn. In the tropical natal chart (FIGURE 3.1), Saturn is at Sagittarius $25^\circ 21' 07''$ with an ecliptic latitude of $+01^\circ 09' 56''$. Therefore, we have

$$\lambda_P = 265^\circ 21' 07'' \approx 265.35194^\circ , \quad \beta_P = +01^\circ 09' 56'' \approx +1.16556^\circ .$$

We find that Saturn's declination is

$$\begin{aligned} \delta_P &= \arcsin(\sin \varepsilon \times \cos \beta_P \times \sin \lambda_P + \cos \varepsilon \times \sin \beta_P) \\ &\approx \arcsin[\sin 23.44851^\circ \times \cos(+1.16556^\circ) \times \sin 265.35194^\circ \\ &\quad + \cos 23.44851^\circ \times \sin(+1.16556^\circ)] \\ &\approx -22.20196^\circ . \end{aligned}$$

The equinoctial distance here is

$$\begin{aligned} (ED)_P &= \arccos\left(\frac{\cos \beta_P \times \cos \lambda_P}{\cos \delta_P}\right) \approx \arccos\left[\frac{\cos(+1.16556^\circ) \times \cos 265.35194^\circ}{\cos(-22.20196^\circ)}\right] \\ &\approx 95.02015^\circ . \end{aligned}$$

Because $\lambda_P > 180^\circ$, we get $(RA)_P = 360^\circ - (ED)_P \approx 264.97985^\circ$ as Saturn's right ascension. King's geographic latitude of birth is $\Phi = 33^\circ 45' N = +33.75^\circ$. We find that

$$\begin{aligned} (AD)_P &= \arcsin(\tan \delta_P \times \tan \Phi) \approx \arcsin[\tan(-22.20196^\circ) \times \tan(+33.75^\circ)] \\ &\approx -15.82531^\circ \end{aligned}$$

is Saturn's ascensional difference.

Thirdly, let's deal with PC10 (the Midheaven). In this regard, we previously found in Section 3.2 that $(RA)_{MC} \approx 300.31189^\circ$ and that $\delta_{MC} \approx -20.52828^\circ$. King's geographic latitude of birth is $\Phi = 33^\circ 45' N = +33.75^\circ$. We find that

$$\begin{aligned} (AD)_{MC} &= \arcsin(\tan \delta_{MC} \times \tan \Phi) \approx \arcsin[\tan(-20.52828^\circ) \times \tan(+33.75^\circ)] \\ &\approx -14.48921^\circ \end{aligned}$$

is the Midheaven's ascensional difference.

Now we are ready to deal with the arc of direction for the converse Saturn-PC10 conjunction. If we take the Saturn-PC10 conjunction to be traditionally converse, then

$$\begin{aligned}\text{arc of direction} &= [(RA)_{MC} - (RA)_P] \times \frac{90^\circ + (AD)_{MC}}{90^\circ + (AD)_P} \\ &\approx (300.31189^\circ - 264.97985^\circ) \times \frac{90^\circ + (-14.48921^\circ)}{90^\circ + (-15.82531^\circ)} \approx 35.96847^\circ.\end{aligned}$$

According to the Ptolemy time-key, this arc indicates

$$\begin{aligned}35.96847 \times \frac{1 \text{ yr of age}}{1 \text{ deg}} &\approx 35.96847 \text{ yrs of age}, \\ &= 35 \text{ yrs} + \left(0.96847 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}}\right) \approx 35 \text{ yrs} + 353.73983 \text{ days},\end{aligned}$$

and so the traditionally converse Saturn-PC10 conjunction predicts an event to occur about 354 days after Wednesday, 15 January 1964 (King's 35th birthday), which is on Sunday, 03 January 1965 (Day 3 of 1965). This prediction date is about 17 months after the date of King's DC speech (Wednesday, 28 August 1963).

If we take the Saturn-PC10 conjunction to be neo-converse, then

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \approx 300.31189^\circ - 264.97985^\circ = 35.33134^\circ.$$

According to the Ptolemy time-key, this arc indicates

$$\begin{aligned}35.33134 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} &\approx 35.33134 \text{ yrs of age} \\ &= 35 \text{ yrs} + \left(0.33134 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}}\right) \approx 35 \text{ yrs} + 121.02404 \text{ days},\end{aligned}$$

and so the neo-converse Saturn-PC10 conjunction predicts an event to occur about 121 days after Wednesday, 15 January 1964 (King's 35th birthday), which is on Friday, 15 May 1964 (Day 136 of 1964). This prediction date is about 9 months after the date of King's DC speech (Wednesday, 28 August 1963).

3.4 Event #K2: The natal Mars-PC1 conjunction

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On Wednesday, 28 August 1963, Martin Luther King Jr. delivered his famous "I Have A Dream" speech during the March on Washington for Jobs and Freedom. In Section 1.3, we examined the Mars-PC1 conjunction as a direct primary direction that was associated with King's DC speech. Regarding King's natal chart (FIGURE 3.1), the Mars-PC1 conjunction is a direct primary direction in which Mars is the promissor and PC1 (the Ascendant) is the significator. Both Mars and PC1 lie in the lower eastern sky. From Section A4, we find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc},$$

where the subscript *P* refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. In this regard, we previously found in Section 3.2 that $\varepsilon \approx 23.44851^\circ$.

Secondly, let's use pertinent formulas of Section A1 to deal with Mars. In the tropical natal chart (FIGURE 3.1), Mars is at Gemini $21^\circ 53' 50''$ with an ecliptic latitude of $+03^\circ 26' 17''$. Therefore, we have

$$\lambda_p = 81^\circ 53' 50'' \approx 81.89722^\circ, \quad \beta_p = +03^\circ 26' 17'' \approx +3.43806^\circ.$$

We find that Mars's declination is

$$\begin{aligned} \delta_p &= \arcsin(\sin \varepsilon \times \cos \beta_p \times \sin \lambda_p + \cos \varepsilon \times \sin \beta_p) \\ &\approx \arcsin[\sin 23.44851^\circ \times \cos(+3.43806^\circ) \times \sin 81.89722^\circ \\ &\quad + \cos 23.44851^\circ \times \sin(+3.43806^\circ)] \\ &\approx +26.63212^\circ. \end{aligned}$$

The equinoctial distance here is

$$\begin{aligned} (ED)_p &= \arccos\left(\frac{\cos \beta_p \times \cos \lambda_p}{\cos \delta_p}\right) \approx \arccos\left[\frac{\cos(+3.43806^\circ) \times \cos 81.89722^\circ}{\cos(+26.63212^\circ)}\right] \\ &\approx 80.94429^\circ. \end{aligned}$$

Because $\lambda_p < 180^\circ$, we get $(RA)_p = (ED)_p \approx 80.94429^\circ$ as Mars's right ascension. King's geographic latitude of birth is $\Phi = 33^\circ 45' N = +33.75^\circ$. For Mars's ascensional difference, we get

$$\begin{aligned} (AD)_p &= \arcsin(\tan \delta_p \times \tan \Phi) \approx \arcsin[\tan(+26.63212^\circ) \times \tan(+33.75^\circ)] \\ &\approx 19.57665^\circ, \end{aligned}$$

and so

$$(OA)_p = (RA)_p - (AD)_p \approx 80.94429^\circ - 19.57665^\circ = 61.36764^\circ$$

is Mars's oblique ascension.

Secondly, let's deal with PC1 (the Ascendant). In the tropical natal chart (FIGURE 3.1), the Ascendant is at Taurus $13^\circ 48' 38''$ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{Asc} = 43^\circ 48' 38'' \approx 43.81056^\circ, \quad \beta_{Asc} = 0^\circ.$$

We find that the Ascendant's declination is

$$\begin{aligned} \delta_{Asc} &= \arcsin(\sin \varepsilon \times \cos \beta_{Asc} \times \sin \lambda_{Asc} + \cos \varepsilon \times \sin \beta_{Asc}) \\ &\approx \arcsin(\sin 23.44851^\circ \times \cos 0^\circ \times \sin 43.81056^\circ + \cos 23.44851^\circ \times \sin 0^\circ) \\ &\approx +15.99025^\circ. \end{aligned}$$

The equinoctial distance here is

$$(ED)_{Asc} = \arccos\left(\frac{\cos \beta_{Asc} \times \cos \lambda_{Asc}}{\cos \delta_{Asc}}\right) \approx \arccos\left[\frac{\cos 0^\circ \times \cos 43.81056^\circ}{\cos(+15.99025^\circ)}\right] \approx 41.35091^\circ.$$

Because $\lambda_{Asc} < 180^\circ$, we get $(RA)_{Asc} = (ED)_{Asc} \approx 41.35091^\circ$ as the Ascendant's right ascension. King's geographic latitude of birth is $\Phi = 33^\circ 45' N = +33.75^\circ$. For the Ascendant's ascensional difference, we get

$$(AD)_{Asc} = \arcsin(\tan \delta_{Asc} \times \tan \Phi) \approx \arcsin[\tan(+15.99025^\circ) \times \tan(+33.75^\circ)] \\ \approx 11.03882^\circ,$$

and so

$$(OA)_{Asc} = (RA)_{Asc} - (AD)_{Asc} \approx 41.35091^\circ - 11.03882^\circ = 30.31209^\circ$$

is the Ascendant's oblique ascension.

Now we are ready to deal with the arc of direction for the direct Mars-PC1 conjunction. We find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc} \approx 61.36764^\circ - 30.31209^\circ = 31.05555^\circ.$$

According to the Ptolemy time-key, this arc indicates

$$31.05555 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} \approx 31.05555 \text{ yrs of age} \\ = 31 \text{ yrs} + \left(0.05555 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 31 \text{ yrs} + 20.28999 \text{ days},$$

and so the direct Mars-PC1 conjunction predicts an event to occur about 20 days after Friday, 15 January 1960 (King's 31st birthday), which is on Thursday, 04 February 1960 (Day 35 of 1960). This prediction date is about 43 months before the date of King's DC speech (Wednesday, 28 August 1963).

3.5 Event #K3: The natal Mars-PC4 conjunction

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On Thursday, 04 April 1968, Martin Luther King Jr. was assassinated. In Section 1.4, we examined the Mars-PC1 conjunction as a neo-converse primary direction that was associated with King's passing. Regarding King's natal chart (FIGURE 3.1), the Mars-PC4 conjunction is a converse primary direction in which Mars is the promissor and PC4 (the Imum Coeli) is the significator. Both Mars and PC1 lie in the lower eastern sky.

If we take the Mars-PC4 conjunction to be traditionally converse, then the active point is PC4 and the fixed point is Mars. From Section A4, we find that

$$\text{arc of direction} = (r_P - r_{IC}) \times (NSA)_{IC}$$

where $(NSA)_{IC} = 90^\circ - (AD)_{IC}$ and

$$r_P = -\frac{(RA)_P - (RA)_{IC}}{90^\circ - (AD)_P}, \quad r_{IC} = -\frac{(RA)_{IC} - (RA)_{IC}}{90^\circ - (AD)_{IC}} = 0.$$

It follows that

$$\text{arc of direction} = [(RA)_{IC} - (RA)_P] \times \frac{90^\circ - (AD)_{IC}}{90^\circ - (AD)_P}.$$

Note that the subscript P refers to the promissor.

If we take the Mars-PC4 conjunction to be neo-converse, then we use the negative of the formula that we would get if the primary direction were direct, and so

$$\text{arc of direction} = -[(RA)_P - (RA)_{IC}] = (RA)_{IC} - (RA)_P,$$

where the subscript P refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. In this regard, we previously found in Section 3.2 that $\varepsilon \approx 23.44851^\circ$.

Secondly, let's use pertinent formulas of Section A1 to deal with Mars. In this regard, we previously found in Section 3.4 that $(RA)_P \approx 80.94429^\circ$ and that $(AD)_P \approx 19.57665^\circ$.

Thirdly, let's deal with PC4 (the Imum Coeli). For the Midheaven, we previously found in Section 3.2 that $(RA)_{MC} \approx 300.31189^\circ$ and that $\delta_{MC} \approx -20.52828^\circ$. Because the Midheaven and the Imum Coeli are opposite points, we have

$$\begin{aligned} (RA)_{IC} &= (RA)_{MC} - 180^\circ \approx 300.31189^\circ - 180^\circ = 120.31189^\circ, \\ \delta_{IC} &= -\delta_{MC} \approx +20.52828^\circ. \end{aligned}$$

King's geographic latitude of birth is $\Phi = 33^\circ 45' N = +33.75^\circ$. We find that

$$\begin{aligned} (AD)_{IC} &= \arcsin(\tan \delta_{IC} \times \tan \Phi) \approx \arcsin[\tan(+20.52828^\circ) \times \tan(+33.75^\circ)] \\ &\approx 14.48921^\circ \end{aligned}$$

is the Imum Coeli's ascensional difference.

Now we are ready to deal with the arc of direction for the converse Mars-PC4 conjunction. If we take the Mars-PC4 conjunction to be traditionally converse, then

$$\begin{aligned} \text{arc of direction} &= [(RA)_{IC} - (RA)_P] \times \frac{90^\circ - (AD)_{IC}}{90^\circ - (AD)_P} \\ &\approx (120.31189^\circ - 80.94429^\circ) \times \frac{90^\circ - 14.48921^\circ}{90^\circ - 19.57665^\circ} \approx 42.21155^\circ. \end{aligned}$$

According to the Ptolemy time-key, this arc indicates

$$\begin{aligned} &42.21155 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} \approx 42.21155 \text{ yrs of age}, \\ &= 42 \text{ yrs} + \left(0.21155 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 42 \text{ yrs} + 77.26998 \text{ days}, \end{aligned}$$

and so the traditionally converse Mars-PC4 conjunction predicts an event to occur about 77 days after Friday, 15 January 1971 (what would have been King's 42nd birthday), which is on Friday, 02 April 1971 (Day 92 of 1971). This prediction date is about 36 months after the date of King's passing (Thursday, 04 April 1968).

If we take the Mars-PC4 conjunction to be neo-converse, then

$$\text{arc of direction} = (RA)_{IC} - (RA)_P \approx 120.31189^\circ - 80.94429^\circ = 39.36760^\circ.$$

According to the Ptolemy time-key, this arc indicates

$$\begin{aligned} & 39.36760 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} \approx 39.36760 \text{ yrs of age} \\ & = 39 \text{ yrs} + \left(0.36760 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 39 \text{ yrs} + 134.26824 \text{ days}, \end{aligned}$$

and so the neo-converse Mars-PC4 conjunction predicts an event to occur about 134 days after Monday, 15 January 1968 (King's 39th birthday), which is on Tuesday, 28 May 1968 (Day 149 of 1968). This prediction date is about 2 months after the date of King's passing (Thursday, 04 April 1968).

APPENDIX A

The mathematics of proportional semi-arcs

A1 Equatorial coordinates

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The **method of primary directions** is a technique that uses primary motion to predict events. In order to deal with the mathematics of primary directions, we will be using the **equatorial coordinate system**, which enables us to specify the location of any point of the celestial sphere in terms of pertinent values of longitude and latitude. Equatorial longitude (called **right ascension**) is angular distance measured along the equator, going from 0° to 360° as we go eastward from the March equinox point. Equatorial latitude (called **declination**) is angular distance (along the celestial sphere) from the equator, going from 0° to $+90^\circ$ as we go perpendicularly northward and going from 0° to -90° as we go perpendicularly southward.

Converting from sidereal ecliptic coordinates to equatorial coordinates involves going from sidereal ecliptic coordinates to tropical ecliptic coordinates and then to equatorial coordinates. Adding the *ayanāmśa* to a sidereal ecliptic longitude yields its equivalent tropical ecliptic longitude, while tropical ecliptic latitude equals sidereal ecliptic latitude.

Both tropical ecliptic longitude and right ascension are measured from the March equinox point. Going from tropical ecliptic coordinates to equatorial coordinates is a conversion from one system of spherical coordinates to another. Consider a point of the celestial sphere that has tropical ecliptic longitude λ and ecliptic latitude β . Its right ascension RA and declination δ satisfy the equations

$$\begin{aligned}\cos \delta \times \cos(RA) &= \cos \beta \times \cos \lambda , \\ \cos \delta \times \sin(RA) &= \cos \varepsilon \times \cos \beta \times \sin \lambda - \sin \varepsilon \times \sin \beta , \\ \sin \delta &= \sin \varepsilon \times \cos \beta \times \sin \lambda + \cos \varepsilon \times \sin \beta ,\end{aligned}$$

where the **obliquity** ε is the angle between the ecliptic plane and the celestial equatorial plane (which is the same as Earth's equatorial plane).

The obliquity is a slowly varying angle for which we will be using the approximation

$$\varepsilon \approx 23^\circ 26' 21.406'' - 46.836769'' \times T ,$$

where T is the number of Julian centuries since the epoch J2000.0. A **Julian year** is defined as exactly 365.25 days of 86400 seconds each. The epoch J2000.0 is a particular instant of time that is Saturday, 01 January 2000 at approximately 12:00 UTC. Note that T is positive for dates after the epoch and negative for dates before the epoch.

We find that

$$\delta = \arcsin(\sin \varepsilon \times \cos \beta \times \sin \lambda + \cos \varepsilon \times \sin \beta) .$$

On defining the **equinoctial distance**

$$ED := \arccos\left(\frac{\cos \beta \times \cos \lambda}{\cos \delta}\right),$$

we get

$$RA = \begin{cases} ED & \text{for } \lambda < 180^\circ \\ 360^\circ - ED & \text{for } \lambda > 180^\circ. \end{cases}$$

Note that equinoctial distance is angular distance measured along the equator, going from 0° to 180° as we go eastward or westward from the March equinox point.

TABLE A1: Ecliptic latitudes for aspect copies

Aspect Copy	θ_A	β_A/β_0
Duodecile	30°	$+\sqrt{3}/2$
Sextile	60°	$+1/2$
Square	90°	0

Aspect Copy	θ_A	β_A/β_0
Trine	120°	$-1/2$
Quincunx	150°	$-\sqrt{3}/2$
Opposition	180°	-1

In order to get the ecliptic latitude of an aspect copy, we will use the **Bianchini aspect circle**. On the celestial sphere, this great circle passes through the parent planet's location and intersects the ecliptic at the two points corresponding to the planet's square aspects. In this regard, we will take each square copy to lie on the ecliptic at an intersection point, and we will take the opposition copy to lie at the point that is opposite the parent planet's location. It follows that the ecliptic latitude of an aspect copy having signature angular separation θ_A is given by

$$\beta_A = \beta_0 \times \cos \theta_A$$

where β_0 is the ecliptic latitude of the parent planet. TABLE A1 presents pertinent results.

A2 Direct and converse primary directions

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Earth's axial rotation gives rise to primary motion. From the point of view of an earthbound observer, we may view primary motion as causing the zodiacal belt (with the planets attached to it) to rotate backward through fixed houses of the local sky. It is useful here to imagine two celestial spheres that occupy the same volume of space – the active sphere and the fixed sphere. The **active sphere** is the celestial sphere undergoing its usual axial rotation according to primary motion. The **fixed sphere** is the celestial sphere as it appeared at a specific time of interest, which could be a birth time, a solar-return time, or a lunar-return time. Primary motion moves the active sphere across the stationary fixed sphere.

A primary direction is associated with a predicted event, and it involves primary motion directing a given point of the active sphere backward through the houses toward a given point of the fixed sphere. One of these two points is called the **significator**, and it indicates the area of life in which the predicted event will occur. The other point is called the **promissor**, and it indicates that which

promises (that is, gives grounds for expecting) the predicted event. A primary direction is said to be **direct** if primary motion directs a promissor lying in the active sphere toward a significator lying in the fixed sphere. A primary direction is said to be **traditionally converse** if primary motion directs a significator lying in the active sphere toward a promissor lying in the fixed sphere. A primary direction is said to be **neo-converse** if reversed primary motion (which is a what-if notion) directs a promissor lying in the active sphere toward a significator lying in the fixed sphere.

The **arc of direction** is the circular path along which primary motion directs the active point (which lies in the active sphere) toward the fixed point (which lies in the fixed sphere). A primary direction is associated with a predicted event, and the angular extent of the associated arc of direction is related to the time when the event is predicted to occur.

A3 The proportional semi-arc formula

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The Ascendant-Descendant (or horizon) axis is the boundary between the upper sky (which contains the Midheaven) and the lower sky (which contains the Imum Coeli). Moreover, the Medium-Imum Coeli (or meridian) axis is the boundary between the eastern sky (which contains the Ascendant) and the western sky (which contains the Descendant). A quadrant-house system (such as our Porphyry house system) uses the horizon and meridian axes to divide the local sky into four quadrants, each containing three houses.

In applying the method of primary directions, we are working with an astrological chart that is cast for a specific time of interest, which could be a birth time, a solar-return time, or a lunar-return time. For the time of the chart, consider an active-sphere point A and a fixed-sphere point F that are both in the same quadrant. The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a **semi-arc** that extends backward house-wise from one quadrant boundary to the other. Each point's semi-arc is the path on the celestial sphere along which primary motion would cause the point to move. Note that points A and F usually have different semi-arcs. Therefore, whenever we say that point A will move toward point F , we mean that point A will move along its own semi-arc and get closer to point F (which lies on its own semi-arc).

The angular extent SA of a point's semi-arc is a non-negative quantity that depends on the point's declination δ and on the chart's geographical latitude Φ . More specifically, we have $SA = 90^\circ \pm AD$, where

$$AD = \arcsin(\tan \delta \times \tan \Phi)$$

is the **ascensional difference**. Note that because the range of the arcsine function is from -90° to $+90^\circ$, the angular quantity NSA can never be negative.

Let r be the point's **proportional distance**, which is ratio of the point's angular distance (away from its semi-arc's beginning) divided by the semi-arc's extent SA . Note that r takes on values from 0 to 1. For the time of the chart, the active point lies zodiacally ahead of the fixed point, and so its proportional distance is lesser. That is, we have $r_A < r_F$. As primary motion occurs, the active-point's proportional distance increases. A **conjunction** occurs between points A and F whenever their proportional distances become equal. The arc of direction is the angle through which the active point must be moved (via primary motion) along its own semi-arc so that its proportional distance goes from the chart value r_A to the conjunction value r_F . More specifically, we have

$$\text{arc of direction} = (r_F - r_A) \times (SA)_A$$

for a primary direction in the quadrant of interest. We will refer to this expression as the **proportional semi-arc formula**.

A4 Primary directions in the lower eastern sky

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In applying the method of primary directions, we are working with an astrological chart that is cast for a specific time of interest, which could be a birth time, a solar-return time, or a lunar-return time. For the time of the chart, consider an active-sphere point A and a fixed-sphere point F that are both in the lower eastern sky (that is, the quadrant consisting of PH1, PH2, and PH3). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a **nocturnal semi-arc** that extends from the Imum Coeli to the Ascendant. The non-negative quantities

$$(NSA)_A = 90^\circ - (AD)_A, \quad (NSA)_F = 90^\circ - (AD)_F$$

are the respective angular extents of the semi-arcs here. Each point's angular distance along its own nocturnal semi-arc is given by the magnitude of its **meridian distance** MD from the Imum Coeli. More specifically, for the time of the chart, we have

$$(MD)_A = (RA)_A - (RA)_{IC}, \quad (MD)_F = (RA)_F - (RA)_{IC}.$$

Right ascension RA is an increasing function of ecliptic longitude λ , and so each meridian distance here is a non-positive angular quantity. The positive ratios

$$r_A = -\frac{(MD)_A}{(NSA)_A} = -\frac{(RA)_A - (RA)_{IC}}{90^\circ - (AD)_A}, \quad r_F = -\frac{(MD)_F}{(NSA)_F} = -\frac{(RA)_F - (RA)_{IC}}{90^\circ - (AD)_F}$$

respectively give each point's proportional distance along its own nocturnal semi-arc. From Section A3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_F - r_A) \times (NSA)_A$$

for a primary direction in the lower eastern sky.

Let's now consider the special case of the fixed point being the Ascendant. Because the Ascendant lies at the end of its semi-arc, we have

$$1 = r_F = -\frac{(RA)_{Asc} - (RA)_{IC}}{90^\circ - (AD)_{Asc}} \Rightarrow (RA)_{Asc} - (RA)_{IC} = (AD)_{Asc} - 90^\circ.$$

On defining the **oblique ascension**

$$OA = RA - AD,$$

we get

$$(OA)_{Asc} = (RA)_{IC} - 90^\circ.$$

It follows that

$$\begin{aligned} \text{arc of direction} &= (1 - r_A) \times (NSA)_A = \left[1 + \frac{(RA)_A - (RA)_{IC}}{90^\circ - (AD)_A} \right] \times [90^\circ - (AD)_A] \\ &= \left\{ \frac{[90^\circ - (AD)_A] + (RA)_A - [(OA)_{Asc} + 90^\circ]}{90^\circ - (AD)_A} \right\} \times [90^\circ - (AD)_A] \\ &= [90^\circ - (AD)_A] + (RA)_A - [(OA)_{Asc} + 90^\circ] = [(RA)_A - (AD)_A] - (OA)_{Asc}, \end{aligned}$$

and so

$$\text{arc of direction} = (OA)_A - (OA)_{Asc}$$

for a primary direction having the Ascendant as the fixed point.

A5 Primary directions in the upper western sky

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In a suitable astrological chart, consider an active-sphere point A and a fixed-sphere point F that are both in the upper western sky (that is, the quadrant consisting of PH7, PH8, and PH8). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a **diurnal semi-arc** that extends from the Midheaven to the Descendant. The non-negative quantities

$$(DSA)_A = 90^\circ + (AD)_A, \quad (DSA)_F = 90^\circ + (AD)_F$$

are the respective angular extents of the semi-arcs here. Each point's angular distance along its own diurnal semi-arc is given by the magnitude of its meridian distance MD from the Midheaven. More specifically, for the time of the chart, we have

$$(MD)_A = (RA)_A - (RA)_{MC}, \quad (MD)_F = (RA)_F - (RA)_{MC}.$$

Right ascension RA is an increasing function of ecliptic longitude λ , and so each meridian distance here is a non-positive angular quantity. The positive ratios

$$r_A = -\frac{(MD)_A}{(DSA)_A} = -\frac{(RA)_A - (RA)_{MC}}{90^\circ + (AD)_A}, \quad r_F = -\frac{(MD)_F}{(DSA)_F} = -\frac{(RA)_F - (RA)_{MC}}{90^\circ + (AD)_F}$$

respectively give each point's proportional position along its own diurnal semi-arc. From Section A3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_F - r_A) \times (DSA)_A$$

for a primary direction in the upper western sky.

Let's now consider the special case of the fixed point being the Descendant. Because the Descendant lies at the far endpoint of its semi-arc, we have

$$1 = r_F = -\frac{(RA)_{Dsc} - (RA)_{MC}}{90^\circ + (AD)_{Dsc}} \Rightarrow (RA)_{Dsc} - (RA)_{MC} = -(AD)_{Dsc} - 90^\circ.$$

On defining the **oblique descension**

$$OD = RA + AD,$$

we get

$$(OD)_{Dsc} = (RA)_{MC} - 90^\circ.$$

It follows that

$$\begin{aligned} \text{arc of direction} &= (1 - r_A) \times (DSA)_A = \left[1 + \frac{(RA)_A - (RA)_{MC}}{90^\circ + (AD)_A} \right] \times [90^\circ + (AD)_A] \\ &= \left\{ \frac{[90^\circ + (AD)_A] + (RA)_A - [(OD)_{Dsc} + 90^\circ]}{90^\circ + (AD)_A} \right\} \times [90^\circ + (AD)_A] \\ &= [90^\circ + (AD)_A] + (RA)_A - [(OD)_{Dsc} + 90^\circ] = [(RA)_A + (AD)_A] - (OD)_{Dsc}, \end{aligned}$$

and so

$$\text{arc of direction} = (OD)_A - (OD)_{Dsc}$$

for a primary direction having the Descendant as the fixed point.

A6 Primary directions in the upper eastern sky

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In a suitable astrological chart, consider an active-sphere point A and a fixed-sphere point F that are both in the upper eastern sky (that is, the quadrant consisting of PH10, PH11, and PH12). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a diurnal semi-arc that extends from the Ascendant to the Midheaven. The non-negative quantities

$$(DSA)_A = 90^\circ + (AD)_A, \quad (DSA)_F = 90^\circ + (AD)_F$$

are the respective angular extents of the semi-arcs here. Each point's angular distance along its own diurnal semi-arc is given by the magnitude of its **horizontal distance** HD from the Ascendant. More specifically, for the time of the chart, we have

$$(HD)_A = (OA)_A - (OA)_{Asc}, \quad (HD)_F = (OA)_F - (OA)_{Asc}.$$

Oblique ascension OA is a right-ascension quantity. Right ascension RA is an increasing function of ecliptic longitude λ , and so each horizontal distance here is a non-positive angular quantity. The positive ratios

$$r_A = -\frac{(HD)_A}{(DSA)_A} = -\frac{(OA)_A - (OA)_{Asc}}{90^\circ + (AD)_A}, \quad r_F = -\frac{(HD)_F}{(DSA)_F} = -\frac{(OA)_F - (OA)_{Asc}}{90^\circ + (AD)_F}$$

respectively give each point's proportional position along its own diurnal semi-arc. From Section A3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_F - r_A) \times (DSA)_A$$

for a primary direction in the upper eastern sky.

Let's now consider the special case of the fixed point being the Midheaven. Because the Midheaven lies at the far endpoint of its semi-arc, we have

$$1 = r_F = -\frac{(OA)_{MC} - (OA)_{Asc}}{90^\circ + (AD)_{MC}} \Rightarrow (OA)_{MC} - (OA)_{Asc} = -(AD)_{MC} - 90^\circ \\ \Rightarrow (OA)_{Asc} = (RA)_{MC} + 90^\circ.$$

It follows that

$$\begin{aligned} \text{arc of direction} &= (1 - r_A) \times (DSA)_A = \left[1 + \frac{(OA)_A - (OA)_{Asc}}{90^\circ + (AD)_A} \right] \times [90^\circ + (AD)_A] \\ &= \left\{ \frac{[90^\circ + (AD)_A] + (OA)_A - [(RA)_{MC} + 90^\circ]}{90^\circ + (AD)_A} \right\} \times [90^\circ + (AD)_A] \\ &= [90^\circ + (AD)_A] + (OA)_A - [(RA)_{MC} + 90^\circ] = [(OA)_A + (AD)_A] - (RA)_{MC}, \end{aligned}$$

and so

$$\text{arc of direction} = (RA)_A - (RA)_{MC}$$

for a primary direction having the Midheaven as the fixed point.

A7 Primary directions in the lower western sky

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In a suitable astrological chart, consider an active-sphere point A and a fixed-sphere point F that are both in the lower western sky (that is, the quadrant consisting of PH4, PH5, and PH6). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a nocturnal semi-arc that extends from the Descendant to the Imum Coeli. The non-negative quantities

$$(NSA)_A = 90^\circ - (AD)_A, \quad (NSA)_F = 90^\circ - (AD)_F$$

are the respective angular extents of the semi-arcs here. Each point's angular distance along its own nocturnal semi-arc is given by the magnitude of its horizontal distance HD from the Descendant. More specifically, for the time of the chart, we have

$$(HD)_A = (OD)_A - (OD)_{DSC}, \quad (HD)_F = (OD)_F - (OD)_{DSC}.$$

Oblique descension OD is a right-ascension quantity. Right ascension RA is an increasing function of ecliptic longitude λ , and so each horizontal distance here is a non-positive angular quantity. The positive ratios

$$r_A = -\frac{(HD)_A}{(NSA)_A} = -\frac{(OD)_A - (OD)_{DSC}}{90^\circ - (AD)_A}, \quad r_F = -\frac{(HD)_F}{(NSA)_F} = -\frac{(OD)_F - (OD)_{DSC}}{90^\circ - (AD)_F}$$

respectively give each point's proportional position along its own nocturnal semi-arc. From Section A3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_F - r_A) \times (NSA)_A$$

for a primary direction in the lower western sky.

Let's now consider the special case of the fixed point being the Imum Coeli. Because the Imum Coeli lies at the far endpoint of its semi-arc, we have

$$\begin{aligned} 1 = r_F &= -\frac{(OD)_{IC} - (OD)_{DSC}}{90^\circ - (AD)_{IC}} \Rightarrow (OD)_{IC} - (OD)_{DSC} = (AD)_{IC} - 90^\circ \\ &\Rightarrow (OD)_{DSC} = (RA)_{IC} + 90^\circ. \end{aligned}$$

It follows that

$$\begin{aligned} \text{arc of direction} &= (1 - r_A) \times (NSA)_A = \left[1 + \frac{(OD)_A - (OD)_{DSC}}{90^\circ - (AD)_A} \right] \times [90^\circ - (AD)_A] \\ &= \left\{ \frac{[90^\circ - (AD)_A] + (OD)_A - [(RA)_{IC} + 90^\circ]}{90^\circ - (AD)_A} \right\} \times [90^\circ - (AD)_A] \\ &= [90^\circ - (AD)_A] + (OD)_A - [(RA)_{IC} + 90^\circ] = [(OD)_A - (AD)_A] - (RA)_{IC}, \end{aligned}$$

and so

$$\text{arc of direction} = (RA)_A - (RA)_{IC}$$

for a primary direction having the Imum Coeli as the fixed point.

A8 A calculation example

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FIGURE A8 presents my natal chart in terms of the tropical zodiac.

FIGURE A8: Aakhut's natal chart (tropical)

Ma 07:11 (PC12) 21:22	(PC11) 13:08 JDSC 19.59	(PC10) 04:53 Su 17:21	Ve 04:28 (PC9) 13:08 Me 20:02	(PC8) 21:22
WS12 TA	WS11 AR	WS10 PI	WS9 AQ	WS8 CP
(PC1) 29:37	Aakhut Em Bak Natal Chart (Tropical Zodiac) Tuesday, 08 MAR 1955 at 11:15 CST Chicago, IL (41° 51' N; 87° 39' W)			(PC7) 29:37
WS1 GE				WS7 SA
Ju 19:59 R (PC2) 21:22	(PC3) 13:08	(PC4) 04:53 Mo 18:08	(PC5) 13:08	Sa 21:07 R (PC6) 21:22
WS2 CN	WS3 LE	WS4 VI	WS5 LI	WS6 SC

Let's examine the Jupiter-PC10 square as a direct primary direction. Here we have Jupiter's dexter-square copy (JDSC) as the active point and PC10 (the Midheaven) as the fixed point. Both JDSC and PC10 lie in the upper eastern sky. From Section A6, we find that

$$\text{arc of direction} = (RA)_A - (RA)_{MC} ,$$

where the subscript A refers to the active point.

Firstly, let's calculate the pertinent obliquity value. Between Tuesday, 08 March 1955 at 11:15 CST (or 17:15 UTC) and the epoch J2000.0 (Saturday, 01 January 2000 at approximately 12:00 UTC), there is the rest of 1955 and 16 leap years and 28 normal years. It follows that the elapsed time in Julian years is

$$\frac{\left[\left(\frac{12.75}{24} + 298\right) + (16 \times 366) + (28 \times 365)\right] \text{ days}}{365.25 \text{ days/yr}} \approx 44.8310233 \text{ yrs} ,$$

and so the number of Julian centuries since the epoch J2000.0 is

$$T \approx -\frac{44.8310233 \text{ yrs}}{100 \text{ yrs}} = -0.448310233 .$$

On making use of the obliquity formula in Section A1, we get

$$\begin{aligned} \varepsilon &\approx 23^\circ 26' 21.406'' - 46.836769'' \times (-0.448310233) \\ &\approx 23^\circ 26' 21.406'' + 20.9974028'' = 23^\circ 26' 42.4034028'' \\ &\approx 23.445112056^\circ \approx 23.44511^\circ . \end{aligned}$$

Note that T is positive for dates after the epoch and negative for dates before the epoch.

Secondly, let's use pertinent formulas of Section A1 to deal with Jupiter's dexter-square copy (JDSC). In the tropical natal chart (FIGURE A8), Jupiter is at Cancer $19^\circ 59' 17''$ with an ecliptic latitude of $+00^\circ 28' 59''$. JDSC is at Aries $19^\circ 59' 17''$ with a Bianchini ecliptic latitude of $(+00^\circ 28' 59'') \times \cos 90^\circ = 0^\circ$. Therefore, we have

$$\lambda_A = 19^\circ 59' 17'' \approx 19.98806^\circ, \quad \beta_A = 0^\circ.$$

We find that JDSC's declination is

$$\begin{aligned} \delta_A &= \arcsin(\sin \varepsilon \times \cos \beta_A \times \sin \lambda_A + \cos \varepsilon \times \sin \beta_A) \\ &\approx \arcsin(\sin 23.44511^\circ \times \cos 0^\circ \times \sin 19.98806^\circ + \cos 23.44511^\circ \times \sin 0^\circ) \\ &\approx +7.81655^\circ. \end{aligned}$$

The equinoctial distance here is

$$\begin{aligned} (ED)_A &= \arccos\left(\frac{\cos \beta_A \times \cos \lambda_A}{\cos \delta_A}\right) \approx \arccos\left[\frac{\cos 0^\circ \times \cos 19.98806^\circ}{\cos(+7.81655^\circ)}\right] \\ &\approx 18.45411^\circ. \end{aligned}$$

Because $\lambda_A < 180^\circ$, we get $(RA)_A = (ED)_A \approx 18.45411^\circ$ as JDSC's right ascension.

Secondly, let's use pertinent formulas of Section A1 to deal with PC10 (the Midheaven). In the tropical natal chart (FIGURE A8), the Midheaven is at Pisces $04^\circ 53' 20''$ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{MC} = 334^\circ 53' 20'' \approx 334.88889^\circ, \quad \beta_{MC} = 0^\circ.$$

We find that the Midheaven's declination is

$$\begin{aligned} \delta_{MC} &= \arcsin(\sin \varepsilon \times \cos \beta_{MC} \times \sin \lambda_{MC} + \cos \varepsilon \times \sin \beta_{MC}) \\ &\approx \arcsin(\sin 23.44511^\circ \times \cos 0^\circ \times \sin 334.88889^\circ + \cos 23.44511^\circ \times \sin 0^\circ) \\ &\approx -9.72074^\circ. \end{aligned}$$

The equinoctial distance here is

$$\begin{aligned} (ED)_{MC} &= \arccos\left(\frac{\cos \beta_{MC} \times \cos \lambda_{MC}}{\cos \delta_{MC}}\right) \approx \arccos\left[\frac{\cos 0^\circ \times \cos 334.88889^\circ}{\cos(-9.72074^\circ)}\right] \\ &\approx 23.26664^\circ. \end{aligned}$$

Because $\lambda_{MC} > 180^\circ$, we get $(RA)_{MC} = 360^\circ - (ED)_{MC} \approx 336.73336^\circ$ as the Midheaven's right ascension.

Now we are ready to deal with the arc of direction for the direct Jupiter-PC10 square. We find that

$$\begin{aligned} \text{arc of direction} &= (RA)_A - (RA)_{MC} \approx 18.45411^\circ - 336.73336^\circ = -318.27925^\circ \\ &\equiv -318.27925^\circ + 360^\circ = 41.72075^\circ. \end{aligned}$$

Note that the mathematical symbol ' $\equiv$ ' means 'is equivalent to'. Two angles are equivalent if they differ by some nonzero integer multiple of 360° .

According to the Ptolemy time-key, this arc indicates

$$\begin{aligned} 41.72075 \text{ deg} \times \frac{1 \text{ yr of age}}{1 \text{ deg}} &\approx 41.72075 \text{ yrs of age} \\ &= 41 \text{ yrs} + \left(0.72075 \text{ yr} \times \frac{365.256363 \text{ days}}{1 \text{ yr}} \right) \approx 41 \text{ yrs} + 263.25852 \text{ days} , \end{aligned}$$

and so the direct Jupiter-PC10 square predicts an event to occur about 263 days after Friday, 08 March 1996 (my 41st birthday), which is on Tuesday, 26 November 1996 (Day 331 of 1996).

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