

Fabrizio Pregadio

The Representation of Time in the Zhouyi Cantong Qi

In: Cahiers d'Extrême-Asie, Vol. 8, 1995. pp. 155-173.

Citer ce document / Cite this document :

Pregadio Fabrizio. The Representation of Time in the Zhouyi Cantong Qi. In: Cahiers d'Extrême-Asie, Vol. 8, 1995. pp. 155-173.

doi: 10.3406/asie.1995.1093

http://www.persee.fr/web/revues/home/prescript/article/asie_0766-1177_1995_num_8_1_1093



Résumé

Attribué aux Han mais remontant dans son état présent aux Tang, le Zhouyi cantong qi, associé originellement aux Apocryphes et à la tradition exégétique du Livre des Mutations, met en lumière un autre aspect du rapport entre Taoïsme et Apocryphes traité magistralement par Anna Seidel dans son étude "Imperial Treasures and Taoist Sacraments". La représentation de l'œuvre alchimique dans le texte étudié ici se base en partie sur des conceptions cosmologiques élaborées à l'époque Han. Son examen révèle quelques aspects importants des idées sur le temps dans l'alchimie chinoise.

Si la composition des élixirs, comme l'écrivent souvent les alchimistes chinois, reproduit et accélère le processus par lequel les minéraux se transmuent naturellement en or à l'intérieur de la terre, la perfection représentée par l'or porte avec elle l'expiration du temps. Cet état intemporel correspond à la domination du xiantian ("Avant le Ciel") et est symbolisé par la ligne entière du Livre des Mutations, qui représente l'Un, appelé aussi le "Yang pur". L'engendrement de l'Un par le non-être (wu) indique le premier stade de la cosmogonie. Sa séparation en deux principes complémentaires représente le second stade. L 'entrée dans le houtian ("Après le Ciel") a lieu au stade suivant, quand la nouvelle conjonction du yin et du yang engendre le cosmos gouverné par les lois de l'espace et du temps. La connaissance du dao ou du principe intemporel interne à la mutation est possible, selon les textes alchimiques chinois, parce que le houtian, et toute entité en dépendant, conserve une "particule" (dian) de Yang pur dans son état originel tel qu'il est dans le xiantian. Dans l'œuvre alchimique, cette particule est représentée par l'élixir, une entité privée d'aspects temporels et donc capable de restituer à la matière, dégradée par l'action du temps, son aspect pur et incorruptible représenté par l'or. Les phases de l'œuvre alchimique sont représentées et réglées par les mêmes signes qui décrivent les caractéristiques du xiantian et son extension dans le houtian. La mutation cyclique est le contenant visible (la "fonction", yong) du principe invisible (la "substance", ti). La montée et la descente de la ligne entière le long des trois positions du trigramme (cycle mensuel), ou les six positions des hexagrammes (cycle annuel), servent à représenter la présence de la "particule de Yang pur" intemporelle dans le temps. L'alchimie applique ces conceptions aux "temps du feu" (huohou), qui gouvernent le réchauffement de l'élixir dans le waidan (alchimie externe) et la circulation des constituants primaires de la personne dans le neidan (alchimie interne).

Il n'y a donc pas que le temps qui est porté à son accomplissement (waidan) ou reconduit à son début (neidan) : dans les deux disciplines, l'élixir possède les mêmes qualités intemporelles que la "particule de Yang pur" parce qu'il est engendré en accord avec les phases de sa constante présence dans le temps.

Un appendice à cet article examine les rapports du Zhouyi cantong qi avec les Apocryphes et la tradition exégétique Han du Livre des Mutations, sa transmission durant l'époque des Six Dynasties, et les modifications apportées au texte par Peng Xiao (?-955), dont l'œuvre fut à son tour rééditée au début du treizième siècle.



Fabrizio PREGADIO

Attribué aux Han mais remontant dans son état présent aux Tang, le Zhouyi cantong qi, associé originellement aux Apocryphes et à la tradition exégétique du Livre des Mutations, met en lumière un autre aspect du rapport entre Taoïsme et Apocryphes traité magistralement par Anna Seidel dans son étude "Imperial Treasures and Taoist Sacraments". La représentation de l'œuvre alchimique dans le texte étudié ici se base en partie sur des conceptions cosmologiques élaborées à l'époque Han. Son examen révèle quelques aspects importants des idées sur le temps dans l'alchimie chinoise.

Si la composition des élixirs, comme l'écrivent souvent les alchimistes chinois, reproduit et accélère le processus par lequel les minéraux se transmuent naturellement en or à l'intérieur de la terre, la perfection représentée par l'or porte avec elle l'expiration du temps. Cet état intemporel correspond à la domination du xiantian ("Avant le Ciel") et est symbolisé par la ligne entière du Livre des Mutations, qui représente l'Un, appelé aussi le "Yang pur". L'engendrement de l'Un par le non-être (wu) indique le premier stade de la cosmogonie. Sa séparation en deux principes complémentaires représente le second stade. L'entrée dans le houtian ("Après le Ciel") a lieu au stade suivant, quand la nouvelle conjonction du yin et du yang engendre le cosmos gouverné par les lois de l'espace et du temps.

La connaissance du dao ou du principe intemporel interne à la mutation est possible, selon les textes alchimiques chinois, parce que le houtian, et toute entité en dépendant, conserve une "particule" (dian) de Yang pur dans son état originel tel qu'il est dans le xiantian. Dans l'œuvre alchimique, cette particule est représentée par l'élixir, une entité privée d'aspects temporels et donc capable de restituer à la matière, dégradée par l'action du temps, son aspect pur et incorruptible représenté par l'or.

^{*}Research for this paper was done with the support of a grant from the Japanisch-Deutsches Zentrum Berlin. I am grateful to Professor Yoshikawa Tadao 吉川忠夫 for his invitation to study at the Institute for Research in Humanities (Jinbun Kagaku Kenkyūjo) of Kyōto University. References to the Zhouyi cantong qi are to the number of zhang in Peng Xiao's 彭曉 Zhouyi cantong qi fenzhang tong zhenyi 周易參同契分章通真義 (A.D. 947; CT 1002) when I do not refer to a specific recension or commentary. The abbreviation "CT" precedes the number assigned to a Daozang 道藏 (Taoist Canon) text in the catalogue by Kristofer Schipper, Concordance du Tao-tsang. Titres des ouvrages (Paris: École Française d'Extrême-Orient, 1975). My thanks also go to all the friends and colleagues who have read earlier drafts of this article and have offered important suggestions for improvement.

Les phases de l'œuvre alchimique sont représentées et réglées par les mêmes signes qui décrivent les caractéristiques du xiantian et son extension dans le houtian. La mutation cyclique est le contenant visible (la "fonction", yong) du principe invisible (la "substance", ti). La montée et la descente de la ligne entière le long des trois positions du trigramme (cycle mensuel), ou les six positions des hexagrammes (cycle annuel), servent à représenter la présence de la "particule de Yang pur" intemporelle dans le temps. L'alchimie applique ces conceptions aux "temps du feu" (huohou), qui gouvernent le réchauffement de l'élixir dans le waidan (alchimie externe) et la circulation des constituants primaires de la personne dans le neidan (alchimie interne).

Il n'y a donc pas que le temps qui est porté à son accomplissement (waidan) ou reconduit à son début (neidan) : dans les deux disciplines, l'élixir possède les mêmes qualités intemporelles que la "particule de Yang pur" parce qu'il est engendré en accord avec les phases de sa constante présence dans le temps.

Un appendice à cet article examine les rapports du Zhouyi cantong qi avec les Apocryphes et la tradition exégétique Han du Livre des Mutations, sa transmission durant l'époque des Six Dynasties, et les modifications apportées au texte par Peng Xiao (?-955), dont l'œuvre fut à son tour rééditée au début du treizième siècle.

From one who worships, thinking "Time is Brahma", time reflows afar... There are, indeed, two forms of Brahma; time, and the Timeless. That which is prior to the sun is the Timeless and partless; but that which begins with the sun is the time that has parts.

Maitrī Upaniṣad, VI.15

(quoted in Ananda K. Coomaraswamy, Time and Eternity, 15)

As Anna Seidel has shown in her "Imperial Treasures and Taoist Sacraments," the remnants of the corpus of writings known as weishu 緯書, or apocrypha, hold keys for a more accurate understanding of the history and doctrines of Taoism in Han and later times. Closely associated in content with the system of the Book of Changes (Yijing 易經) and formally attached to this and the other Classics, the apocrypha were primarily concerned with the principles that regulate the functioning of the cosmos and thus were intended to direct the course of the sovereign's actions. "Imperial Treasures and Taoist Sacraments" was the first study to examine in detail a theme prominent in these writings: the tokens (sacred objects, scriptures, talismans, charts, registers of divine names) and the omens by which heavenly powers granted and authenticated the investiture of legendary or historical rulers. In a masterly work,

based on sources sometimes so fragmentarily preserved as to defy intelligibility, Anna Seidel demonstrated the continuity between these themes and Taoist doctrines, showing that the Han and Six Dynasties doctrines of Taoist initiation and transmission matched the *wei* lore of dynastic investiture and succession.

The Zhouyi cantong qi 周易參同契 ("Token of the Agreement of the Three in Accordance with the Book of Changes") illustrates another facet of the links between Taoism and the apocrypha and the sources of the Han exegetical tradition of the Changes. As shown in the appendix below, the original version of this work was associated with both corpora. The shared background of notions, images and vocabulary yielded a different text, which over time became the foremost Chinese alchemical scripture. Often designated by such appellations as "the ancestor of all writings on the elixirs" 萬卷丹經之祖, the Zhouyi cantong qi (hereafter Cantong qi) formed the basis for a larger textual and doctrinal tradition than that of any other alchemical work. The text articulates the doctrines canonized in parts of the Book of Changes, applying them to the alchemical discipline. It uses lines, trigrams and hexagrams of the Changes, and other cosmological devices, to represent the cosmogonic process, construct a cosmological model, and describe facets of the alchemical discipline. Hidden in a highly allusive language and thick layers of symbols and images is an exposition of the doctrine that inspired a variety of commentaries and other works, in both the Taoist and Neo-Confucian traditions.¹

Our focus will be the representation of time as it emerges from various passages of the text. This will lead us to touch on some important themes in the Chinese alchemical doctrines—for example, the relation between timelessness and time, the use of various sets of images to represent and measure time, and their significance from an alchemical point of view.

"Before the Heaven" and "after the Heaven"

According to several commentators, the subjects dealt with in the *Cantong qi* and referred to in its title are Taoist doctrines (*huanglao* 黄老), cosmology or the system of the *Book of Changes* (*dayi* 大易), and alchemy (*luhuo* 爐火). Both the *Laozi* 老子 and the *Book of Changes* are often quoted or alluded to in the *Cantong qi*.² The doctrines

¹ A reflection of the influence of the *Cantong qi* is also found in the identically titled Buddhist work, attributed to Shitou Xiqian 石頭希遷 (700-791) and still held in high esteem within the Sōtō 曹洞 lineage of Japanese Zen. On this text see the study by James Robson published in this volume of *Cahiers d'Extrême-Asie*.

Here and below, "device" renders the French term *dispositif*, adopted by Marc Kalinowski in many of his works. See, for example, the introduction to his *Cosmologie et divination dans la Chine ancienne*. Cf. Bibliography below, pp. 172-173.

² References to the *Laozi* are in zh. 1, 8, 20, 21, 23, 40, and 61. Sentences of the *Book of*

expressed in the *Laozi* provide the necessary ground for the alchemical work, which is performed in accordance with the laws of cosmology but intends to transcend them. In both waidan 外丹 ("external alchemy") and neidan 内丹 ("internal alchemy"), time is the main focus of this endeavor. Chinese alchemists, as Nathan Sivin has pointed out,³ often compared the compounding of an elixir to the process by which minerals naturally transmute themselves into gold within the earth. An obvious but major implication of this idea is that the perfection represented by gold brings the expiration of time. While the waidan practice accelerates time and brings it to an end, neidan takes the opposite path, leading an adept backward along the stages of the time cycles and receding to the inception of time. In either case, the accomplishment of the alchemical process grants access to timelessness, or immortality.⁴

The domains of the *Laozi* and the *Book of Changes*—which I shall refer to below as the Principle (*dao* 道) and manifestation (*vi* 易 or "change")—coincide in many regards with the distinction between *xiantian* 先天 ("before the Heaven") and houtian 後天 ("after the Heaven"). Both expressions refer to the "opening of Heaven" (kaitian 開天), the spontaneous generation of the cosmos from Primordial Breath (yuanqi 元氣) or Pure Yang (chunyang 純陽). In the representation of cosmogony that is central to the Chinese alchemical doctrines, Primordial Breath expands with a movement often compared to the rotation of the Great Dipper around its axis. In this process, Pure Yang divides itself into the two complementary principles, yin and yang. Their re-union generates manifestation and change, or the houtian. The two other modes of the Principle—yuanshen 元神 or Primordial Spirit and yuanjing 元精 or Primordial Essence—act as a foundation for non-material and material manifestation, respectively. Due to the process of inversion that governs the shift from xiantian to houtian, Primordial Spirit and Primordial Essence become

Changes are quoted or echoed in zh. 1, 6, 9, 13, 15-17, 19, 40, 43-45, 47, 49, 59, and 76. This interpretation of the title of the Cantong qi is supported by a passage in zh. 85. According to another explanation, based on some lines of zh. 16, the "three" are Heaven, Earth and Man.

³ See Nathan Sivin, "The Theoretical Background of Elixir Alchemy," 221-279, and "Chinese Alchemy and the Manipulation of Time."

⁴ Waidan and neidan mark two distinct attitudes toward time only in their use of cosmological devices that represent and regulate the course of the practice. In waidan as well time is brought back to its origin by recreating within the crucible conditions similar to those prevailing before manifestation. Kristofer Schipper and Wang Hsiu-huei, "Progressive and Regressive Time Cycles in Taoist Ritual," 197, take note of the coexistence of two positions with regard to time in waidan as they remark: "The fire-phasing in the furnace reproduces the time cycle of the calendar year while the elixir inside the vessel goes through the nine transformations of the embryo," which in alchemy are re-enacted in reverse.

⁵ More exactly, the *Book of Changes* deals with the "extension" of the *xiantian* into the *houtian*. Focusing on time, which is, together with space, the matrix of change, it ultimately consists of a description, through numerology and abstract symbols, of the features of Being as it appears in manifestation. Divination is one application of this cosmological system.

enclosed in entities of the opposite sign. In human beings, in particular, the cosmogonic process causes Primordial Spirit (yin) to be enclosed in the mind/heart (yang), and Primordial Essence (yang) to be enclosed in the kidneys (yin).

Cosmogony, thus, takes place in three main stages: (1) generation of Being, i.e., the One, from Non-Being (the dao, or the Absolute beyond any attribute); (2) division of the One into yin and yang; (3) production of the cosmos by the coupling of yin and yang. The first two stages pertain to xiantian, while the third marks the shift to houtian.⁶ The emblems of the Book of Changes are one of several sets of representations, all corresponding to each other, used to refer to the principles outlined above. The multiple denotations of its unbroken — and broken — lines, in particular, parallel the three stages of cosmogony. First, the unbroken line stands for the One before its separation into the complementary principles. Second, it represents the yang aspect of the One in the xiantian, complemented by its yin aspect, or the broken line. Third, the unbroken line denotes yang within yin in the houtian, and is paralleled by the broken line that denotes yin within yang.

When the alchemical texts express their doctrines through the emblems of the *Changes*, the principle sought by the alchemist is represented by the unbroken line. The third signification of this line is essential to the representation of time in the *Cantong qi* and deserves closer attention. The emblems of the *Changes* are related to other devices, e.g., the Five Agents (wuxing 五行), the ten Stems of Heaven (tiangan 天干), and the twelve Branches of Earth (dizhi 地支). A passage in zh. 9 of the *Cantong qi* applies these emblems to the principles underlying manifestation:

| 坎戊月精 | Kan is wu, and is the essence of the Moon, |
|------|--|
| 離己日光 | li is ji , and is the radiance of the Sun. |
| 日月爲易 | The Sun and Moon make change, |
| 剛柔相當 | the hard and the soft match each other. |
| | |

⁶ This cosmogonic scheme is also announced in zh. 42 of the Laozi: the dao generates the One; the One begets the two; from the union of the two a third (the "three") is born; the many (wanwu 萬物 or "ten thousand things") are the sum of the individual entities thus produced. Isabelle Robinet, "Original Contributions of Neidan to Taoism and Chinese Thought," 309-310, compares the cosmogonic schemes of the Book of Changes and the Laozi, noting that Chinese alchemy displays a marked preference for the latter. The stages of the process described in the Laozi can, nonetheless, be represented by the emblems of the Book of Changes (see Table 3 below).

⁷ For a diagram representing the correspondences among these devices see Peng Xiao's "Diagram of the Bright Mirror" ("Mingjing tu" 明鏡圖) in his Zhouyi cantong qi dingqi ge mingjing tu 周易參同契鼎器歌明鏡圖 (The "Song of the Tripod" and the "Diagram of the Bright Mirror" of the Token of the Agreement of the Three According to the Book of Changes; CT 1003), 8a-b. See also a similar illustration (with the Great Dipper at the center) in Yu Yan's 兪琰 Yiwai biezhuan 易外別傳 (The "Separate Transmission of the Changes"; 1284; CT 1009), 14b. These diagrams do not pertain only to alchemy, but to any discipline based on the laws of cosmology. See Kalinowski, Cosmologie et divination dans la Chine ancienne, 57-74.

The noteworthy feature of this representation is that the female trigram $kan \equiv is$ associated with the Moon but includes a yang unbroken line, matching the Stem wu /\$\mathbb{Z}\$ or the male aspect of the One. The male trigram $li \equiv$, vice versa, is associated with the Sun but incorporates a yin broken line, matching the Stem $ji \supseteq 0$ or the female aspect of the One.

For this reason, *kan* and *li* are said to be the visible "functions" (*yong* 用) in the *houtian* of the unbroken and the broken lines, which are their invisible "substance" (*ti* 體) in the *xiantian*. The opening section of the *Cantong qi* refers to this:

乾坤者易之門戸 Qian and kun are the gates of change,

衆卦之父母 the father and the mother of all the hexagrams.

坎離匡郭 Kan and li are the walls.

運轂正軸 the correct axle in the revolving hub.

Li and kan of the houtian are compared here to walls that enclose the authentic yin and yang of xiantian. As a "correct axle in the revolving hub," they are at the center of manifestation and its temporal cycles.⁸

The relationship between xiantian and houtian, or analogous correlates, is a key element in alchemy and other doctrines, bound to show that the two sides of the dichotomy are radically different and yet fundamentally one. An axiom common to these doctrines is that existence and any of its impermanent constituents (including time) cannot be identified with the Principle but are among the changing and transient attributes that the Principle can assume. In Taoism, this is expressed in the proposition that existence and its constituents are not the dao but are images (xiang 寒) of the dao. In a formulation specific to and recurring in neidan texts, knowledge of the dao within change, or of xiantian within houtian, is possible because the houtian, and every entity within it, harbors a "particle" (dian 點) of Primordial Breath or Pure Yang in the same pristine state as in the xiantian.

Tracing the particle of Primordial Breath

This "particle," and the ways in which it is represented, is at the core of the alchemical work. Zhang 16 of the Cantong qi is concerned with the purpose of these representations:

元精眇難睹 Primordial Essence is subtle and difficult to observe:

推度效符證 [therefore] scrutinize and reckon its tokens. 居則觀其象 Ceaselessly contemplating its images,

居則觀其象 Ceaselessly contemplating its images, 準擬其形容 adapt and comply to its attributes.

⁸ For a diagram representing *li* and *kan* as the "walls" of authentic *yin* and *yang* see Hu Wei's 胡渭 *Yitu mingbian* 易圖明辨 ("Discriminating among Diagrams of the *Changes*"; 1706), 3.19a (Siku Quanshu ed.). *Juan* 3 of Hu Wei's work also includes a choice of passages on the *Cantong qi* drawn from works of various dates and provenance.

Primordial Essence (the principle of material manifestation, or the yang aspect of Primordial Breath) is sought by the alchemist to restore matter to its original state by "projection," a process also denoted by the term dian. Once detected, or recognized, the "particle of Primordial Breath," which corresponds to the Philosopher's Stone of Western alchemists, should be projected onto matter to transmute it back into its pristine condition. This "particle" is the elixir itself. The waidan elixir, often referred to as jing 精 or "essence," is an entity deprived of temporal aspects and therefore capable of restoring matter degraded by the action of time to a pure and uncorrupt state, represented by gold. In the remarkably more complex neidan practice, part of the work consists of recovering Primordial Essence by cycling its material counterpart (semen) backwards.

In both waidan and neidan, the steps of the practice are represented and regulated by the same emblems that serve to describe the features of xiantian and its extension into the houtian. The alchemical practice is an application, in the domain of time and space (the cosmos), of the metaphysical principles that we have surveyed above. For this reason, the practice provides an adept with temporary support for re-integrating the houtian into the xiantian. In both waidan and neidan, the alchemical process is typically represented by devices based on the Book of Changes, which make it possible to represent time cycles of different magnitude, scale them upwards or downwards, and nest them into each other. Alchemy applies these devices to the system of "fire phasing" (huohou 火候), which governs the heating of an elixir in waidan, and the circulation of the prime constituents of the adept's person in neidan. Trigrams and hexagrams are used to represent single phases within these cycles. Referring to Laozi 11, zh. 8 of the Cantong qi shows that these emblems, although concerned with time, are a means to transcend time.

以無制有 Being is produced from Non-being: 器用者空 the use of a vase resides in its emptiness. 故推消息 Therefore infer the ebb and flow, 妳離没亡 and kan and li will disappear and be forgotten.

As "the use of a vase resides in its emptiness," so the rising and falling yin and yang of the *houtian* hide within themselves the yin and yang of the xiantian. The alchemical work on the temporal cycles brings about the disappearance of $li \equiv$ and

⁹ Though it can be expressed in alchemical language, the realization of the fundamental oneness of *xiantian* and *houtian* (that is, the extinction of any difference between them) lies beyond the domain of the alchemical practice. For this reason, the *neidan* texts that describe the alchemical discipline as a three-stage process (refining of essence into breath, of breath into spirit, and entrance into Emptiness, xu \mathbb{E}) barely provide indications about the last stage.

¹⁰ For examples of the use of the "fire phasing" in waidan and neidan see Sivin, "The Theoretical Background of Elixir Alchemy," 266-278, and Farzeen Baldrian-Hussein, *Procédés Secrets du Joyau Magique*, 88-107, respectively.

 $kan \equiv$ and the restoration of $qian \equiv$ and $kun \equiv$. This is the first stage of the reintegration of *houtian* and *xiantian*, or of time and timelessness.

Change being the visible container of the invisible Principle, the trigrams and hexagrams of the *Book of Changes* serve to trace the presence of the timeless *dao* in the temporal cosmos. What flows through them is nothing but the "particle of Primordial Breath," whose action is represented by the ascent and descent of the unbroken line along the three positions of the trigrams, or the six positions of the hexagrams. *Zhang* 48 of the *Cantong qi* is concerned with this line:

| 循據層環 | Moving around in accordance with Xuan and Ji (i.e., the Great Dipper), |
|------|--|
| 升降上下 | rising and declining, ascending and descending, |
| 周流六爻 | it flows through the six lines [of the hexagrams], |
| 難可察賭 | but is difficult to survey. |
| 故無常位 | This is because it has no constant position |
| 爲易宗祖 | — it is the Principal Ancestor of change. |

Alternatively, change can be represented by the movement of both the broken *yin* line and the unbroken *yang* line. *Zhang* 7 alludes to this second option.

```
二用無爻位 The two functions (yong) have no [fixed] positions in the lines: 
周流行六虚 they flow in cycles among the six empty spaces [of the hexagrams].
```

The flow of the broken and unbroken lines through trigrams and hexagrams is apparent in the two main devices that the *Cantong qi* adopts to represent time, which we will now examine. Both are associated with Yu Fan 虞翻 (164-233), the last great commentator of the Han exegetical tradition of the *Book of Changes*.

The Contained Stem (najia 納甲)

Attributed in its original form to Jing Fang 京方 (77-37 B.C., of whose line of transmission Yu Fan is a later representative), this device essentially consists of matching the eight trigrams to the ten Stems of Heaven. $Qian \equiv is$ associated with jia 甲 and $ren \pm kun \equiv i$ with yi $\angle I$ and I and I and I and I are shown in Table 1 below. The main development of this pattern is ascribed to Yu Fan. Elaborating on the sentence, "Of the images suspended [between Heaven and Earth], none is greater than the Sun and the Moon" 縣象莫大乎日月, in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I are the subject of I in the I and I in the I are the subject of I in the I and I in the I in th

¹¹ On the application of the najia device in the Cantong qi see Suzuki Yoshijirō, Kan Eki kenkyū, 632-635; Wang Ming, "Zhouyi cantong qi kaozheng," 252-254; and Imai Usaburō, "Shūeki sandōkei to Sōgaku," 13-14. Yu Fan's passage is preserved with other fragments of

| DAY | PHASE | TRIGRA | .M | | STEM (| AND DIREC | TION) |
|-----|---------------------------------|--------|----|----------|--------|-----------|-------|
| 3 | beginning of waxing (shuo 朔) | zhen | 震 | 드 | geng | 庚 | (W) |
| 8 | first quarter (shangxian 上弦) | dui | 兌 | = | ding | 1. | (S) |
| 15 | full moon (wang 望) | qian | 乾 | = | jia | 甲 | (E) |
| 16 | beginning of waning (jiwang 既望) | sun | 巽 | ☴ | xin | 辛 | (W) |
| 23 | last quarter (xiaxian 下弦) | gen | 艮 | ☶ | bing | 丙 | (S) |
| 30 | end of cycle (hui 晦) | kun | 坤 | ΞΞ | yi | 乙 | (E) |

TABLE 1. The najia device as developed by Yu Fan and applied in the Cantong qi.

Li \equiv and $kan \equiv$ do not match any moon phase, as they represent the immobile Center and do not become part of the cycle. Precisely for this reason they constitute a major feature of this device. In the night between the end of one lunar cycle and the beginning of the next, the moon, kan, moves to gui \ncong , associated with the north. There it meets the sun, li, corresponding to the Stem $ren \implies$ and, again, the north. The sun and the moon join their essences, represented by the inner lines of the corresponding trigrams and by the Stems $vu \not \bowtie$ and $vi \bowtie$. Both Stems are associated with the center. In the conditioned state, the union of the essences of the sun and the moon at the end of a time cycle produces the next cycle. In the *neidan* practice, where time processes are reproduced backwards, their reiterated conjunction generates the "embryo of immortality." Cosmologically, this conjunction restores the original couple of male and female trigrams, vi and vi

The Twelve-stage Ebb and Flow (shier xiaoxi 十二消息)

This device represents cyclical change by twelve so-called "sovereign hexagrams" (bigua 辟卦) in which, similar to the najia pattern, the broken and unbroken lines flow first upwards and then downwards. While the application of the najia device to the moon phases takes the month as a time unit, the twelve sovereign hexagrams reproduce the upturn and decline of yin and yang throughout the year. Yu Fan mentions the "Twelve-stage Ebb and Flow" in two fragments of his Yijing commentary. In one of them he names the twelve hexagrams in sets of

his lost Yijing exegesis in Li Dingzuo's 李鼎祚 (Tang, dates unknown) Zhouyi jijie 周易集解 (Collected Explications of the Book of Changes), 14.350 (Congshu Jicheng ed.). It consists of a note on a sentence in section A.11 of the Xici (text in the Harvard-Yenching Concordance to Yi Ching); transl. Richard Wilhelm, The I Ching or Book of Changes, 319. This passage is also discussed and compared to the Cantong qi in Fung Yu-lan, A History of Chinese Philosophy, II: 426-427. For graphical representations of the najia device see Yitu mingbian, 3.27a-b and 29b.

¹² See Suzuki, 165-167 and ff.

three. Each hexagram represents one month, and each set—beginning with tai 泰 $\stackrel{!}{=}$, associated with the first month of spring—matches one season. Table 2 shows the associations mentioned by Yu Fan in the order in which they are usually arranged, starting with the hexagram fu 復 $\stackrel{!}{=}$ that represents the beginning of the growth of yang. In addition to the months of the year, the table shows the associations of the sovereign hexagrams with other duodenary series used in alchemy: the Branches of Earth, the pitches $(l\ddot{u})$, and the watches of the day (shi). The last association allows scaling down time from the year to the day.

| 壨 | ≝ | ≣ | ≣ | | | | 罰 | 冒 | | ≣≣ |
|--------|---|--|---|---|---|--|---|---|---|---|
| 臨 | 泰 | 大壯 | 夬 | 乾 | 姤 | 遯 | 否 | 觀 | 剥 | 坤 |
| lin | tai | dazhuang | guai | qian | gou | dun | pi | guan | bo | kun |
| 12月 | 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | 8月 | 9月 | 10月 |
| chou 出 | yin 寅 | mao IJ | chen 辰 | si □ | wu 午 | wei 未 | shen 申 | you 酉 | xu戌 | hai 亥 |
| 大呂 | 太蔟 | 夾鐘 | 姑洗 | 仲呂 | 蕤賓 | 林鐘 | 夷則 | 南呂 | 無射 | 應鐘 |
| g dalü | taicou | jiazhong | guxi | zhonglü | ruibin | linzhong | yize | nanlü | wuyi | yingzhong |
| 1-3時 | 3-5時 | 5-7時 | 7-9時 | 9-11時 | 11-13時 | 13-15時 | 15-17時 | 17-19時 | 19-21時 | 21-23時 |
| | 臨 lin 12月 chou 丑 大呂 g dalü | 臨 泰 lin tai 12月 1月 chou 丑 yin 寅 大呂 太蔟 g dalü taicou | 臨 泰 大壯 lin tai dazhuang 12月 1月 2月 chou 丑 yin 寅 mao 卯 大呂 太蔟 夾鐘 g dalü taicou jiazhong | 臨 泰 大壯 夬 lin tai dazhuang guai 12月 1月 2月 3月 chou 丑 yin 寅 mao 卯 chen 辰 大呂 太蔟 夾鐘 姑洗g dalü taicou jiazhong guxi | 臨 泰 大壯 夬 乾 lin tai dazhuang guai qian 12月 1月 2月 3月 4月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 大呂 太族 夾鐘 姑洗 仲呂 g dalü taicou jiazhong guxi zhonglü | 臨 lin 泰 tai 大壯 dazhuang 夬 guai 乾 qian 姤 gou 12月 1月 2月 3月 4月 5月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 wu 午 大呂 太族 夾鐘 姑洗 仲呂 蕤賓 g dalü taicou jiazhong guxi zhonglü ruibin | 臨 療 大壯 夬 乾 姤 遯 山n lin tai dazhuang guai qian gou dun 12月 1月 2月 3月 4月 5月 6月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 wu 午 wei 未 大呂 太蔟 夾鐘 姑洗 仲呂 蕤賓 林鐘 g dalü taicou jiazhong guxi zhonglü ruibin linzhong | 臨 lin 泰 tai 大壯 dazhuang 夬 guai 乾 qian 姤 gou 遯 dun 否 pi 12月 1月 2月 3月 4月 5月 6月 7月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 wu 午 wei 未 shen 申 大呂 太族 夾鐘 姑洗 仲呂 蕤賓 林鐘 夷則 g dalü taicou jiazhong guxi zhonglü ruibin linzhong yize | 臨 療 大壯 夬 乾 姤 遯 否 觀lin 大壯 夬 乾 姤 遯 否 觀 gou dun pi guan 12月 1月 2月 3月 4月 5月 6月 7月 8月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 wu 午 wei 未 shen 申 you 酉 大呂 太蔟 夾鐘 姑洗 仲呂 蕤賓 林鐘 夷則 南呂 g dalü taicou jiazhong guxi zhonglü ruibin linzhong yize nanlü | 臨 泰 大壯 夬 乾 姤 遯 否 觀 別 lin tai dazhuang guai qian gou dun pi guan bo 12月 1月 2月 3月 4月 5月 6月 7月 8月 9月 chou 丑 yin 寅 mao 卯 chen 辰 si 巳 wu 午 wei 未 shen 申 you 酉 xu 戌 大呂 太族 夾鐘 姑洗 仲呂 蕤賓 林鐘 夷則 南呂 無射 g dalü taicou jiazhong guxi zhonglü ruibin linzhong yize nanlü wuyi |

TABLE 2. The shier xiaoxi device and its association with other duodenary series.

The section of the *Cantong qi* dealing with the "Twelve-stage Ebb and Flow" (zh. 49-60) describes each stage of the process in an allusive way: the names of the pitches, for instance, are sometimes contracted into a single character (e.g., cou 蔟 for taicou 太蔟, and xi 洗 for guxi 姑洗), while the Branches often appear hidden within other characters (e.g., wei 未 within mei 昧, and shen 申 within shen 伸). In both cases, the graphs refer to the cosmological marker but also retain their proper meaning within the poem.¹⁴

¹³ Zhouyi jijie, 13.324. Yu Fan comments here on the sentence, "Because of its changes and its continuity, it (i.e., the system of the *Book of Changes*) corresponds with the four seasons" 變通配四時 (*Xici* A.5; transl. Wilhelm, 302). The second reference is in *Zhouyi jijie*, 13.314 (commentary on *Xici* A.2; transl. Wilhelm, 288).

¹⁴ For a detailed analysis of this passage see Ho Peng Yoke, "The System of the *Book of Changes* and Chinese Science," 31-34 (summarized in Joseph Needham *et al.*, *Science and Civilisation in China*, V.3: 60). On the application of the *shier xiaoxi* device in the *Cantong qi* see Suzuki, 629-631; Wang Ming, 254-257; and Imai, 16-18.

From the Book of Changes to alchemy: lead and mercury

In the Cantong qi and the texts that borrow its language, the "particle of Primordial Breath," timeless but running throughout time and its cycles, is also represented through alchemical emblems. Chinese alchemy employs various sets of representations to refer to its doctrinal principles. One consists of minerals and metals; another of the Five Agents and associated devices such as the Stems of Heaven and the Branches of Earth; another of the human body, especially the five viscera (wuzang 五臟) and the dumai 督脈 and renmai 任脈 channels. The first two sets of images are shared by waidan and neidan, while the third is distinctive of neidan. In the first representation, the "particle of Primordial Breath" or Pure Yang is symbolized by lead; in the second, by Water; in the third, by the "breath" (qi 氣) of the kidneys (or yang within yin).

Lead, Water and the breath of the kidneys all correspond to the unbroken line in the Book of Changes. Because of this correspondence, these emblems share the ambivalence of this line. On one hand, as we have seen, the unbroken line stands for the One before its separation into the two complementary principles. In this instance, yang is usually qualified as "pure" (chun 純) and is the same as Primordial Breath. On the other hand, the unbroken line also represents the yang aspect of the One, complemented by its yin aspect but enclosed within yin entities in the houtian. In the Cantong qi and in the texts that adopt its system, the One of the xiantian is represented by lead. This lead is gold, or the elixir, or the particle of Primordial Breath of the xiantian. The complementary yin and yang of the houtian are symbolized by lead and mercury, respectively. Here lead becomes the heavy, dark, plunging yin principle; its counterpart is the light, luminous, volatile mercury, representing the yang principle. Similarly, the Water of pure yang in the xiantian is substituted by yin Water and yang Metal in the houtian. In the person, the yang "breath" of the yin kidneys is complemented by the "liquor" (ye 液) of the heart (yin within yang).

Looking at the same correspondences from the point of view of the alchemical emblems, the lead of *xiantian* corresponds to the single unbroken line, while the lead and mercury of *houtian* correspond to kan = and li = n, respectively. These multiple representations are summarized in the table below (note the inversion that occurs with the passage from *xiantian* to *houtian*).

¹⁵ The immediate referents of the first set of emblems, minerals and metals, are natural substances in waidan, and the prime constituents of the adept's person in neidan. "Person" (shen 身) and "body" (ti 體) are two different entities; thus the kidneys are a bodily organ, but alchemically refer to the receptacle of authentic yang in the person. Many neidan authors, however, point out that the "particle of primordial yang" is actually in the xuanpin 玄牝 (Mysterious Female, or—more exactly—"Mysterious" [yang] "and Female" [yin]), a point in the person which cannot be exactly located in any part of the body. For clear statements in this regard see Chen Chongsu's 陳沖素 (Yuan dyn.) Guizhong zhinan 規中指南 ("Compass for Peering into the Center"; CT 243), 2.2b-7a. On the Taoist representation of the body see Catherine Despeux, Taoisme et corps humain.

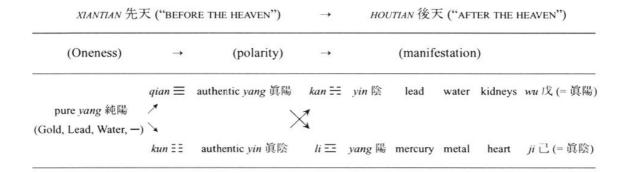


TABLE 3. Emblems of the shift from the xiantian to the houtian.

One of several sub-units of the Cantong qi devoted to describing this process or facets of it, corresponding to zh. 23-26, is significant for its emphasis on lead as an emblem both of temporal, corrupt matter and of the timeless, authentic principle that it hides and reveals. The main passages are in zh. 23 and 24, which include expressions often borrowed by neidan texts. Zhang 23, it is also worth noting, quotes a passage from Laozi 28 in its first line, and a passage from Laozi 70 in its next to the last line:

| 知白守黒 | To know the White keep to the Black |
|------|--|
| 神明自來 | and the divine light will come of its own. |
| 白者金精 | The White is the essence of Metal, |
| 黒者水基 | the Black is the foundation of Water. |
| 水者道樞 | Water is the axis of the dao: |
| 其數名一 | its figure is 1. |
| 陰陽之始 | At the origin of yin and yang |
| 玄含黄芽 | it mysteriously holds the Yellow Sprout. |
| 五金之主 | It is the lord of the five metals, |
| 北方河車 | the northern direction, the River Chariot. |
| 故鉛外黒 | Therefore lead is black outside |
| 内懷金華 | but hides the Golden Flower, |
| 被褐懷玉 | [like a man] wearing rough garments who hides a piece of jade, |
| 外爲狂夫 | but outside looks like a fool. |

White and black are the colors associated with mercury and lead, and with the agents Metal and Water, respectively. Commentators disagree as to the referent of the emblem "white." For some of them it represents mercury, for others gold. The disagreement is only apparent, however, because in either case "white" stands for the authentic substance contained within corrupt, "black" lead. As yang within yin this authentic substance is the opposite of lead, i.e., mercury; but this yang is also the Pure Yang of xiantian, i.e., gold. Therefore Water, in spite of being only one of the Five Agents in the conditioned state, carries the Yellow Sprout (huangya 黄芽), the germ of the elixir mentioned in the passage just translated. Lead, likewise, is

dark on the outside but conceals the white, luminous Golden Flower (*jinhua* 金華).

Zhang 24 brings this to a paradoxical formulation:

| 金爲水母 | Metal is the mother of Water, |
|------|---|
| 母隱子胎 | but the mother hides herself in her son's womb. |
| 水者金子 | Water is the child of Metal, |
| 子藏母胞 | but the child harbors his mother's venter. |

The first and third lines refer to the mutual production (xiangsheng 相生) order of the Five Agents, where Metal is followed by Water. The second and fourth lines allude to the inversion of this process in alchemy, where Metal is extracted from Water. In the sequence of the Five Agents, Water is the son of Metal; but in the alchemical process, it is Water (corrupted lead ≡) that generates Metal (or Authentic Lead, Gold, the unbroken line). This reversal makes for the inversion that takes place with the shift from xiantian to houtian.

Zhang 25 is concerned with the next stage of the process. Hidden within black lead, Gold is of its opposite color when extracted and turns into red through the action of fire. The "outer protection" mentioned in this passage is the crucible. The elixir that forms inside the crucible is, in Chen Zhixu's 陳致虚 (ca. 1330) words, the very "Breath of the Authentic Oneness Before the Heaven" (xiantian zhenyi zhi qi 先天眞一之氣).16

| 採之類白 | When you extract it, it is classified as white; |
|------|---|
| 造之則朱 | when you temper it, it becomes red. |
| 錬爲表衛 | To refine it make for it an outer protection, |
| 白里貞居 | and place the White in its middle. |
| 方圓徑寸 | Square [like Earth] and round [like Heaven], its size is only one inch; |
| 混而相拘 | [yin and yang] are mingled in it, and keep to each other. |
| 先天地生 | It is there since before Heaven and Earth were born, |
| 巍巍尊高 | eminent, majestic, imposing. |
| | |

Zhang 26 closes this section with a poetic description of the crucible.

Conclusion

Like the two forms of Brahma, the *dao* is both the Timeless and time. Alchemy performs, in the domain that is proper to it, the important task of bringing an adept

¹⁶ Zhouyi cantong qi fenzhang zhu 周易參同契分章注 ("Commentary of the Token of the Agreement of the Three According to the Book of Changes, with an Arrangement into Paragraphs"), 21a (Daozang Jiyao ed.). Note the parallel between the line "Square and round, its size is only one inch" in this zhang and the lines "The niwan has rooms for each of the Nine Perfected / Square and round, their size is only one inch" 泥丸九眞皆有房 / 方圓一寸處此中 in the Huangting jing 黄庭經 ("Book of the Yellow Court"; section 7.11-12 of the Neijing 内景 version in the EFEO Concordance du Houang-t'ing king, edited by Kristofer Schipper).

to the realization that what appears as corrupt and subject to the action of time is actually an aspect of the timeless principle. To do so, it uses emblems that serve both to represent the fundamental oneness of the *dao* and manifestation, and to lead an adept towards the realization of their oneness.

As the xiantian is in the houtian, and as time is a temporal repository of the Timeless, so is authentic lead to be found within corrupt lead. Releasing the hidden principle, or perceiving that, in the words of the Cantong qi, "it is there since before Heaven and Earth were born," is the task of waidan and neidan alchemists. Whatever practice they follow, they achieve their work by reproducing the pattern of time in order to transcend it and attain timelessness, or immortality. This is possible not only because they advance to the end of time or recede to its beginning, to the extent that any distinction exists between these two attitudes. The emblems that they rely on enable them to trace out the constant presence of timelessness throughout time.

APPENDIX

Historical notes on the Cantong qi

The history of the *Cantong qi* is a subject of importance for the reconstruction of the whole history of Chinese alchemy, and especially the *neidan* tradition. This appendix, based on the first results of research on this topic, is mainly concerned with the early history of the text. A more detailed study, dealing with such themes as the genealogies of the commentaries through the Yuan period, the so-called "ancient text" (*guwen* 古文) of the *Cantong qi*, and other closely related sources, will be published elsewhere.

The authorship of the *Cantong qi* is traditionally attributed to Wei Boyang 魏伯陽, a legendary character said to come from the Shangyu 上虞 commandery of Guiji 會稽 in modern Zhejiang. According to the most popular account, Xu Congshi 徐從事 ("Xu the Attendant"), a native of Qingzhou 青州 in modern Shandong, was the first to receive the text and contributed a commentary. At the time of Emperor Huan 桓帝 of the Later Han (r. 146-167), Wei Boyang transmitted his work together with Xu's commentary to Chunyu Shutong 淳于叔通, who also came from Shangyu and began to circulate the scripture.

While some accounts of Chunyu Shutong, as we shall see, reflect the relation of the Cantong qi with the apocrypha, its association with the Han "Studies of the Changes" (vixue 易學) is manifest in the work of the last great representative of this tradition, Yu Fan 虞翻 (164-233). A descendent of the lineage that includes Mcng Xi 孟喜 (fl. 69 B.C.) and Jing Fang 京方 (77-37 B.C.), the two main Former Han exegetes of the Changes, Yu Fan is the first author whose work shows acquaintance with the Cantong qi. A gloss on the character yi 易 ("change") in the Jingdian shiwen 經典釋文 (early seventh century; Baojing Tang 抱經堂 ed. of 1791, 2.1a) attributes to him a reference to a sentence in the Cantong qi ("The Sun and Moon make change" 日月爲易) found in zh. 9 of the received text. The ambiguous wording of the gloss even leaves room for the possibility that Yu Fan wrote the earliest known independent commentary on the Cantong qi. In one of two possible interpretations, the gloss

reads: "[According to] Yu Fan's commentary [on the *Changes*], the *Cantong qi* says that this character is formed by a sun with a moon below" (「虞翻注。參同契云字從日下月。」). The punctuation implicit in the second possible reading, "Xu Fan's commentary on the *Cantong qi* says..." (「虞翻注參同契云。字從日下月。」), fits the pattern of quotations in the *Jingdian shiwen*. There is no mention of such a commentary in bibliographic sources, but a reference to it in one of the two Tang exegeses of the *Cantong qi* supports this reading (see the commentary attributed to the immortal Yin Changsheng 陰長生, *CT* 999, 3.11a). Other evidence on Yu Fan's familiarity with the *Cantong qi* may have been located by Suzuki Yoshijirō, who suggested that Yu Fan drew on *zh*. 13-15 for a passage of his commentary on the *Changes* (*Kan Eki kenkyū*, 602-603; we have dealt with this passage above, in the section on the "Twelve-stage Ebb and Flow").

The Shuowen jiezi 説文解字 (A.D. 100; ed. of 1873, 9B.18a) attributes the same sentence alluded to by Yu Fan to a "secret text" or some "secret texts" (bishu 秘書), an apparent reference to the apocrypha (see the exhaustive discussion in Wang Ming, 242-248). Ineffectual for showing either that the original Cantong qi was a wei attached to the Book of Changes, or that it dated from before the end of the first century, this is the first of several discrete pointers to the background that the Cantong qi shares with the apocrypha. The threecharacter title following the name of the parent Classic, which the Cantong qi has in common with most weishu (cf. Wang Liqi, "Chenwei wulun," 383-386), is only the most conspicuous indication in this regard. The word qi 契, also frequent in the titles of wei texts, belongs to a group of near synonyms that, as Anna Seidel remarked, "assimilates the apocrypha to contracts" between Heaven and man ("Imperial Treasures and Taoist Sacraments," 309). Like fu 符 (symbolon, tally), qi sometimes designates an object, bestowed by Heaven either directly or through the mediation of a master, which grants the potentiality to communicate with Heaven. The Cantong qi is one of these objects: it is said to contain no method for the compounding of elixirs, but to be itself an elixir. In the words of an early Song text (Longhu huandan jue 龍虎還丹訣, CT 909, 1.1a; cf. Sivin, "The Theoretical Background of Elixir Alchemy," 249), "for the Elixir of Return (huandan 還丹) there is no formula; the Jinbi jing 金碧經 and the Cantong qi are its formulae." (The Jinbi jing is preserved as Jindan jinbi qiantong jue 金丹金碧潛通訣 in j. 73 of the Yunji qiqian 雲笈七籤 [ca. 1025; CT 1032]. It consists of a shorter paraphrase of the Cantong qi, marked by a tendency to replace the Cantong qi imagery with a language closer to alchemy, and by an inferior level of literary refinement. In the Song, the Jinbi jing was re-edited and distributed as the "ancient text," guwen 古文, of the Longhu jing 龍虎經, which according to several accounts was the scripture that originally provided inspiration to Wei Boyang.)

Connections of the Cantong qi with the wei writings are also intimated by at least two passages in the received text. A description of the transcendence acquired by the adept (zh. 28) concludes with the line "he will obtain the Script and receive the Chart" (「膺籙受圖」), one of similar expressions that in the apocrypha designate the mandate granted by Heaven to a sovereign. (In a wording very similar to the Cantong qi, 「受籙應河圖」, this expression appears in a wei on the Book of Changes; cf. Qian zuodu 乾鑿度, in Yasui Kōzan and Nakamura Shōhachi, eds., Isho shūsei, IA: 48. In later times, the same expression defined the Taoist ceremony of transmission; see Seidel, "Imperial Treasures and Taoist Sacraments," 308-309.) In another passage (zh. 11), the Cantong qi mentions Confucius and alludes to the initial sentences of the Classics that the wei were attached to; both features, which would

hardly be expected if the *Cantong qi* had originated as an alchemical text, fit the context of the *wei* writings, sometimes deemed to have been written by Confucius long before their supposed re-emergence in Han times. A further, more ambiguous indication is a pun in the final *zhang*, where some characters can be rearranged to form the phrase "composed by Wei Boyang" 魏伯陽造. Similar cryptograms were both a pastime of Han literati and a technique of divination documented in the apocrypha and elsewhere (Wang Ming, 247-248, discusses this passage and provides some examples drawn from apocryphal texts), but the final portions of the *Cantong qi* are among those most likely to have been added after the Han.

The tradition concerning Chunyu Shutong's role in the composition and transmission of the Cantong qi provides a clearer focus for the evidence examined above. Unlike Wei Boyang, Chunyu Shutong is a historical character, whose connections to prognostication point to a milieu close to those that produced the apocrypha. The most elaborate account concerning him is found in Tao Hongjing's 陶弘景 (456-536) Zhen'gao 真誥 (CT 1016, 12.8a-b), where he appears in a section devoted to the bureaucracy of the otherworld. According to this narrative, Chunyu was proficient in numerology (shushu 數術) and used to ingest pills of sesame seeds and deer bamboo. At the time of Emperor Huan he was District Magistrate of Xuzhou 徐州 (in modern Jiangsu). Emperor Ling 靈帝 (r. 168-189) appointed him General-in-Chief, but he declined the summons and went to Wu 呉, where he received the Hongjing dan jing 虹景丹經 (Book of the Elixir of the Rainbow Luminosity) from the immortal Huiche zi 慧車子. Tao Hongjing's own notes quote a short passage on Chunyu's life as coming from the Cantong qi, which may have appeared in a lost preface to the text or in one of its early versions. Chunyu is depicted there as a disciple of Xu Congshi, from whom he learned the art of prognostication. Chunyu Shutong's connections to the science of prediction are amplified in other works that relate his divinatory feats and make him an expert on the Book of Changes and the apocrypha. His dealings with both divination and alchemy acquire meaning in the light of the affiliations between the two disciplines, which apply the same cosmological system in different directions. (Sources on Chunyu Shutong's connections to divination are collated in Yu Jiaxi, Siku tiyao bianzheng, 10.1211-1214; see also Wang Ming, 242 n. 1.)

The later history of the Cantong qi will be the object of a separate study. Briefly stated, evidence shows that the Cantong qi circulated in southern China after the Han: the Six Dynasties authors who mention the *Cantong qi*—Jiang Yan 江淹 (444-505), Tao Hongjing, Yan Zhitui 顏之推 (531-591), and possibly Ge Hong 葛洪 (283-343)—either came from or were closely associated with Jiangnan. At that time, Jiangnan preserved a branch of the Han "Studies on the Changes" and the lore of the apocryphal texts (see Michel Strickmann, Le Taoisme du Mao Chan, 98-103). The Jiangnan-based lineage of Yu Fan must have been instrumental in the preservation and transmission of the Cantong qi. The spread of alchemical practices in this area also made it an ideal soil for its transformation into a treatise on the clixirs. The little-known tradition represented by Hugang zi 狐剛子 may have been among those that used the Cantong qi as scriptural authority. The now scattered body of writings associated with this legendary alchemist contained the earliest alchemical texts largely based on metals, including lead and mercury (the two foremost substances in the Cantong qi). Traditions associating Hugang zi either with Wei Boyang or with Ge Hong's line of transmission suggest a southern origin for these texts, and in the first case point to links with the Cantong qi. A confirmation of these links comes from the two-juan anonymous

commentary to the Cantong qi (Zhouyi cantong qi, CT 1004), which highlights methods attributed to Hugang zi. As Chen Guofu was the first to show (Daozang yuanliu xukao, 377-378), this commentary dates from around A.D. 700. A quotation from the preface of this commentary in two cognate Tang texts, to which Meng Naichang called attention (Zhouyi cantong qi kaobian, 28-29), supports this indication, as do substitutions for taboo characters and mentions of personal names. The Cantong qi had taken its present form by the beginning of the eighth century, as shown by this commentary, by the textually cognate commentary attributed to Yin Changsheng (CT 999), and by Liu Zhigu's 劉知古 (before 661-after 742) Riyue xuanshu lun 日月玄樞論 ("Treatise on the Sun and the Moon, the Mysterious Axis"; preserved in the Quan Tang wen 全唐文, 334.12a-21a, and in an abridged and inferior version in the Daoshu 道樞, CT 1017, 26.1a-6b). Liu Zhigu provides a synopsis of the Cantong qi and its first neidan interpretation, and, in doing so, quotes passages found in the three juan, or pian, of the received version.

In the Five Dynasties, Peng Xiao 彭曉 (?-955) submitted the text of the Cantong qi to a substantial rearrangement. Comparison of his text with the two Tang recensions shows that the variants he introduced consist, along with the division into zhang, of some inversions and relocations of lines, and of a large number of substitutions of single words. The exact extent of these variations, however, is difficult to ascertain. This is implied in a postface written in 1208 by the astronomer Bao Huanzhi 飽澣之 (fl. 1207-1210), which is solely preserved in the Daozang edition (Zhouyi cantong qi dingqi ge mingjing tu, 6b-8a). In this valuable document, which has not yet received the attention it deserves, Bao praised the recension by Peng Xiao as the best available at his time but noted that it was not exempt from errors and that its divisions into zhang were not always accurate. Due to later alterations, moreover, the copy preserved in the Imperial Library-which Bao must have had access to when he worked at court—differed from the other versions circulating by his time. Bao then goes on to remark that before him the text was revised by Zheng Huan 鄭煥, but his edition included many errors. Later Zhu Xi 朱熹 (1130-1200) established a better text in his Zhouyi cantong qi kaoyi 周易參同契考異 (CT 1001), but his divisions into zhang, as well as his commentaries, were occasionally faulty. This prompted Bao to collate as many editions as possible of the Fenzhang tong zhenyi and produce what he believed would be a critical edition. For the main text of the Cantong qi he based himself on Zhu Xi's recension, while for Peng Xiao's own notes he relied on Zheng Huan's edition. He followed, however, other editions when they agreed with each other against Zhu Xi and Zheng Huan. Another rule that informed his work was to leave the main text unaltered when a passage differed from the quotation of the same passage within the commentary. Based on the examples that Bao himself provides of his alterations, Peng Xiao's original text was much closer to the Tang text of the Cantong qi than it is now.

Being substantially the same as the one in the *Daozang*, all other available editions of the *Fenzhang tong zhenyi* are based on Bao Huanzhi's revision, and none preserves the original text established by Peng Xiao. Further evidence of alterations is provided by a quotation from the lost commentary by Zhang Sui 張隨, who lived one century after Peng Xiao (*Zhouyi cantong qi dingqi ge mingjing tu*, 1a). The *Fenzhang tong zhenyi*, nonetheless, maintains its standing as a watershed between the earlier and the later recensions, for most of which it served as textual basis.

Studies cited

- BALDRIAN-HUSSEIN, Farzeen. Procédés Secrets du Joyau Magique. Traité d'Alchimie Taoïste du XI^e siècle. Paris: Les Deux Océans, 1984.
- CHEN Guofu 陳國符. Daozang yuanliu xukao 道藏源流續考 [Further studies on the history of the Taoist Canon]. Taibei: Mingwen Shuju, 1983.
- COOMARASWAMY, Ananda K. Time and Eternity. Ascona, 1947 (Artibus Asiae Supplementum VIII).
- Despeux, Catherine. *Taoïsme et corps humain. Le Xiuzhentu.* Paris: Guy Trédaniel (Éditions de la Maisnie), 1994.
- Fung Yu-lan. A History of Chinese Philosophy. Princeton: Princeton University Press, 1953.
- Ho Peng Yoke. "The System of the *Book of Changes* and Chinese Science," *Japanese Studies in the History of Science* 11 (1972): 23-39.
- IMAI Usaburō 今井宇三郎. "Shūeki sandōkei to Sōgaku" 周易三同契と宋学 [The Cantong qi and Song thought]. Tōkyō Kyōiku Daigaku Bungakubu kiyō 東京教育大学文学部紀要 27 (= Kokubungaku kanbungaku ronsō 国文学漢文学論叢 4) (1960): 1-47.
- Kalinowski, Marc. Cosmologie et divination dans la Chine ancienne. Le Compendium des Cinq Agents (Wuxing dayi, VI^e siècle). Paris: École Française d'Extrême-Orient, 1991.
- MENG Naichang 孟乃昌. Zhouyi cantong qi kaobian 周易參同契考辯 [An investigation of the Cantong qi]. Shanghai: Guji Chubanshe, 1993.
- NEEDHAM, Joseph, et al. Science and Civilisation in China. 7 vols. projected, Cambridge: Cambridge University Press, 1954-.
- ROBINET, Isabelle. "Original Contributions of *Neidan* to Taoism and Chinese Thought." In Livia Kohn, ed. in cooperation with Yoshinobu Sakade, *Taoist Meditation and Longevity Techniques*, 297-330. Ann Arbor: Center for Chinese Studies, The University of Michigan, 1989.
- SCHIPPER, Kristofer, and WANG Hsiu-huei. "Progressive and Regressive Time Cycles in Taoist Ritual." In J.T. Fraser, N. Lawrence, and F.C. Haber, *Time, Science, and Society in China and the West (The Study of Time, V)*, 185-205. Amherst: The University of Massachusetts Press, 1986.
- SEIDEL, Anna. "Imperial Treasures and Taoist Sacraments—Taoist Roots in the Apocrypha." In Michel Strickmann, ed., *Tantric and Taoist Studies in Honour of Rolf A. Stein*, II: 291-371. Bruxelles: Institut Belge des Hautes Études Chinoises, 1983.
- SIVIN, Nathan. "The Theoretical Background of Elixir Alchemy." In Joseph Needham, Ho Ping-yü, Lu Gwei-Djen, and Nathan Sivin, *Science and Civilisation in China*, vol. V: Chemistry and Chemical Technology, part 4: Apparatus, Theories and Gifts, 210-305. Cambridge: Cambridge University Press, 1980.
- ------. "Chinese Alchemy and the Manipulation of Time," *Isis* 67 (1976) 513-527; repr. in Nathan Sivin, ed., *Science and Technology in East Asia. Articles from Isis*, 1913-1975, 109-122 (New York: Science History Publications, 1977).

- STRICKMANN, Michel. Le Taoïsme du Mao Chan. Chronique d'une révélation. Paris: Collège de France, Institut des Hautes Études Chinoises, 1981.
- Suzuki Yoshijirō 鈴木由次郎. Kan Eki kenkyū 漢易研究 [A study of the Book of Changes in the Han period]. Rev. ed., Tōkyō: Meitoku Shuppansha, 1963.
- Wang Liqi 王利器. "Chenwei wulun" 讖緯五論 [Five essays on the apocrypha]. In Yasui Kōzan 安居香山, ed. Shin'i shisō no sōgōteki kenkyū 讖緯思想の総合的研究 [Collected studies on the thought of the apocrypha], 379-394. Tōkyō: Kokusho Kankōkai, 1984.
- Wang Ming 王明. "Zhouyi cantong qi kaozheng" 周易參同契考證 [An examination of the Cantong qi]. Repr. in his Daojia he daojiao sixiang yanjiu 道家和道教思想研究 [Studies on Taoist thought], 241-292. Beijing: Zhongguo Shehui Kexue Chubanshe, 1984. (Originally published in Guoli Zhongyang Yanjiuyuan Lishi Yuyan Yanjiusuo jikan 國立中央研究院歷史語言研究所集刊 19, 1947).
- Wilhelm, Richard (transl. Cary F. Baynes). *The I Ching or Book of Changes*. 2 vols., New York: Pantheon Books, 1950.
- YASUI Kōzan 安居香山 and NAKAMURA Shōhachi 中村璋八, eds. *Isho shūsei* 緯書集成 [Complete collection of the apocryphal texts]. 6 vols. projected, Tōkyō: Meitoku Shuppansha, 1971-.
- Yu Jiaxi 余嘉錫. Siku tiyao bianzheng 四庫提要辨證 [Critical review of the descriptive notes in the Complete Texts of the Four Repositories]. Beijing: Zhonghua Shuju, 1958.