Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

# SYNTATIC AND SEMANTIC ANALYSIS OF "多+VP"

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## **ABSTRACT**

Many words or phrases in Chinese can serve as adverbials before verbs or adjectives, or as complements after verbs or adjectives. In most cases, the same words used as adverbials and complements have different meanings (Li Jinxi 1924, Wang Li 1943, Shuxiang Lü, Zhu Dexi 1952, Zhang Jing 1980, Li Zhu 1988, Ma Zhen 1997). We take "duo" as an example to examine the semantic difference between the two phrase forms of "duo"多+V" and "V+多" in modern Chinese Mandarin (Liu Yuehua 1982, Shuxiang Lü1982, Xin Yongfen 2006). Shuxiang Lü (1984) gave a detailed classification and explanation of the usage of "Duo" in "Xiàndài hànyǔ bābǎi cì". He believes that the adjective "duo" can be used as an adverbial before the verb or as a complement after the verb when it means "an increase in number than the original; the number exceeds." Scholars such as Huang Xiaohong (2001) and Xin Yongfen (2006) believe that "duo" as an adverbial and result complement have different semantics. Specifically, the adverbial "duo" reaches a certain amount, and the complement "duo" means more than a certain amount.

**Keywords:** duo + V;duo<sub>1</sub>; duo<sub>2</sub>; english more; additive reading.

Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

The tests and results of the existing research on the structural characteristics of "duo+VP" are summarized in Table 1.Please see the table below: 1

Related research	Category 1	Category 2	
Lu Shu xiang (1984)	Large quantities	Increased from the original number, exceeded the number	
Huang Xiaohong (2001)	Reach a certain amount	More than a certain amount	
Xin Yongfen (2006)	Unexpected, anticipatory	Already, unexpected	
Luosu (2008)	Reach a certain amount	More than a certain amount	

## 1. INTRODUCTION

This chapter mainly studies the situation when the adverbial "duo" in Chinese modifies verb phrases, that is, the structure of "duo+VP", for example, "Zhang San duo paole 20 fen Zhong (bu)". We believe that "duo" before verbs can express two different semantics, namely "comparative" interpretation and "additive" interpretation. The following mainly analyzes the semantic and syntactic characteristics of the adverb "duo" from the interpretation of "additive". The thesis further analyzes the interpretation of the meaning of "duo+VP" meaning "addition".

Although some researches in Chinese are devoted to solving the above problems, the related problems have not been solved completely. In general, there are mainly the following shortcomings. The academic circles pointed out that the Chinese "duo+VP" has semantic ambiguity, but the semantic ambiguity has not been fully discussed. Although the academic circles pointed out the semantic ambiguity of

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Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

the "duo+VP" structure, they did not explain the semantics and syntactic structure of

the structure in detail. In theory, if "duo+VP" is ambiguous, it should also correspond

to different syntactic structures. The basic grammatical structure of the Chinese

adverb "duo+VP" is "duo+VP". It seems more reasonable. We will further verify this

inference in the analysis in the next section. In addition, Huang Xiaohong (2001) and

Xin Yongfen (2006) proposed two semantic and syntactic structures of "pair" before

verbs. Based on them, we propose two reasons to prove the different semantics of the

"duo+ VP" structure.

(2) The analysis of the semantic phenomena of "duo+ VP", "reaching a certain

number" and "exceeding a certain number" cannot effectively explain the relevant

language facts.

This article will continue to focus on the controversial Chinese "duo+VP" issue,

and discuss the corresponding issues with "duo+ VP" as an ambiguity. Specifically,

the special type of "additive" in Chinese "duo" will be studied, and the syntactic

structure and existing structure of the adverb "duo" will be analyzed. The discussion

and research on the above content can promote whether there is an additive

explanation for the Chinese "duo" and at the same time promote the further

development of the research on the Chinese adverb "duo". Additive structure.

1.1The analysis of "duo+VP" as "additive" interpretation

Chinese "duo+VP" shows that different semantics in different syntactic

structures. This part mainly explains the semantic difference between "duo<sub>1</sub>" and

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

"duo<sub>2</sub>". And try to answer the question of the semantic ambiguity of the "duo +VP"

structure.

1.1.1Concept introduction

The argument of the case is different, this sentence is not true. This is because

adding Mary and Sara's sleeping events together will only get a plural (plural) event,

that is, as Link (1983) said, the sum of two different events,  $e_1+e_2=e_3$  should produce

"plural" From any reasonable point of view, this cannot be considered a further

development (more).

Finally, although there are two different arguments, (29c) can still be interpreted

as additive interpretation. This can again consider the development of the event.

Suppose, we can imagine such a situation, in the competition, the running events of

Mary and Sara are added and compared with the running time of the other group,

Mary and Sara's group wins. On the contrary, if Mary and Sara do not know each

other and run in an environment where they do not know each other, their combined

running event cannot be called development (more).

Also in example (1), Greenberg (2009) further pointed out that although the

predicate in the assertion and the presupposition is the same for the same sentence

above, their additive interpretation is not obvious: as follows:

(1) a. I have many friends who are busy writing papers. John has written 5

papers. Mary has written more (papers) (comparative / # additive)

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746

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Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

b. I baked 3 cakes for my son's birthday party. A woman I know in New York baked

more (cakes) for her son's birthday party (comparative / # additive)

(Greenberg 2009)

The interpretation of "more" and "comparison" in Example (1) is established. In

order to obtain the "additive" interpretation of "more", an additional constraint must

be met. With "more<sub>add</sub>", the asserted and presupposed events should be summed

together so that they constitute a singular event. Cakes baked for the same holiday

can be considered singular events intuitively. Example (1a) two different people and

writing papers in two different places will naturally not be regarded as singular. In

this regard, we further explain with another example. As shown in example (2a).

In example (2a), only "more" has a comparative interpretation. This is because

the children of the prime minister, and my children cannot be summed up as a

singular set. The sum of events e<sub>3</sub> of "more" in English is actually not a plural

number, but a true singular number. If there are two different arguments between e<sub>1</sub>

and e<sub>2</sub>, then we can also use Landman's theory (1996, 2000) to add them together,

and then combine them to form a collective action. As shown in example (3):

(3) a. This morning Danny interviewed 3 students in his office. At the same

time, Susan interviewed more students in the library. (comparative / additive)

We sum up the presupposed and asserted events, resulting in a singular event of

interviewing a group of 5 students. This is done by Danny and Susan together, that is,

Danny and Susan interview students as a collective action. Susan interviewed 2

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Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

students besides the students interviewed by Danny. Example (1b) says that the

cakes he baked in New York and the cakes I baked for the holiday cannot form a

group, nor can they participate in an event together (they don't have any common

decisions, share responsibility for things, etc.). Therefore, the above example

sentence (2b) has no additive interpretation. Also in (2a), the children of the

Prime Minister and my children cannot be a group.

Greenberg (2010b) believes that in some cases, the concepts of "singular" and

"plural" cannot distinguish the additive and comparative semantics of "more". To

obtain a purely additive interpretation of "more", one cannot rely solely on "singular"

and "plural" concepts to distinguish. This is because there are some cases where

"more" sounds appropriate, that is to say, "more" will hold its additive meaning even

though there is no real collective interpretation, as shown in the example (4)

(4) a. (What happened to the cookies you baked?) Well, my nephews were

here and ate most of them. Later I had a meeting with my student, and she ate some

more. b. The hurricane killed 4 people in this village. A week later two more people

were killed by robbers. (Greenberg 2010b)

In example (4a), it is difficult to form a group of "my nephew" and "my

student" (they may not know each other). Therefore, the cookies I baked were

naturally not eaten by the collective action of my nephew and students. Example

(4b) 4 people were killed in the village, and 2 people died in the hurricane a week

later. The additive interpretation of "more" can be established. Then it can be seen

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

from the above content that you can get a "more" additive interpretation without

being a collective.

The author has examined the "additive" interpretation of English "more" from

a cross-lingual perspective. The ambiguity of English "more" is very inspiring to us.

Greenberg (2010b) and Thomas (2011) made a more detailed analysis of the

ambiguity of "more". We can use the semantic expressions they pointed out to further

interpret the "additive" of "multiple" and express the semantic expressions.

We agree with Thomas that the structure of "duo<sub>2</sub>" with "additive" interpretation

is like English, expressing the development of an event constituted by an original

sub-event and a changed event. In other words, the change sub-event in the event

expressed by "duo<sub>2</sub>" has an "additive" interpretation, and one sub-event expressed

does not have a second change sub-event. This difference determines the internal

events of the entire "duo+VP".

Below we explain the different understandings of the semantics of "duo+VP".

From the above conclusions, several semantics of "duo" in modern Chinese are all

expressed with "duo". We first explain the "additive" interpretation of "duo+VP"

from the perspective of events. Although the semantics of "duo+VP" has aroused

heated discussions among Chinese scholars, it has not yet reached a unified

understanding.

This shows that there are ambiguities in the semantics of the Chinese adverb

"duo+VP", and the performance of "duo+VP" is more complex and diverse.

Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

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1. Analysis of the Synonymous "duo+VP"

The core meaning of "duo" is (additive). The predecessors have different

definitions of "additive". Lu Xiaoyu (2017) quoted Lichtenberk (1991) and

distinguished between "repetition marker" and "additive marker". "Repetition"

mainly refers to the time sequence of two similar or related events. Occurs one after

the other, requiring the same action to be issued by the same action; "addition"

requires different actions and the same or similar event type, that is, different actions.

When "duo" modifies VP, its core meaning "additive" can be subdivided into

two specific semantics: "additive" and "comparative". The two semantic "duo+VP"

have differences in semantic features. Next, we will discuss the distinction between

the two. Through the above semantic phenomenon of English "more" and "duo", we

have a relatively deep understanding. Since "duo+VP" has been discussed from the

word level in the previous article, in order to ensure the equivalence of the contrast

plane when comparing the language in this section with English, this section will

focus on the comparison of the corresponding words in English with "duo". In

Chinese, the adverb "duo" can also express different meanings like English "more",

the difference between the semantics of "additive" and "comparative" represented by

"duo+VP" is not very obvious.

When analyzing the different semantics of the additive operator again

(English) and "wieder" (German), the predecessors had two different

<sup>1</sup>English "more" can be interpreted in two ways, one is additive reading, and the other is comparative interpretation (comparative reading). The two interpretations have different semantic expressions.

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**750** 

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Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

viewpoints: Reductionism and Polysemous Account. Scholars who hold the simplification theory believe that the different semantics of "again/wieder" can be reduced to a basic meaning, and the difference lies in the different syntactic jurisdiction or information structure (von Stechow 1996, Klein 2001, Beck 2006). There are many words in Chinese besides "duo" before verbs that can be interpreted as "additive". The adverb "you" can also mean additive interpretation. The semantics of "additive" of "duo" before verbs in Chinese is the same as that of English "again" in Chinese. Although the "additive" semantics of the Chinese adverb "you" and the adverb "duo+VP" are not completely parallel, the "additive" semantics of "you" undoubtedly give us a lot of inspiration. Dowty (1979) Mc Cawley and Morgan successively discovered the semantics of "again" and did a more detailed analysis. Point out that there are two interpretation methods for the following example sentences. When dealing with the different semantics of "duo+VP", we also adopted a simplified view.

(5) a. John opened the door again.

(Klein 2010)

b. Rise 
$$\leftrightarrow$$
 again 
$$\begin{bmatrix} RISE \\ ADD \\ CON \end{bmatrix} \leftrightarrow again^2$$

They explained that one way of reading is external reading. Namely: John has done the action of opening the door at least once before, and this time is a repetition

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<sup>&</sup>lt;sup>2</sup>One feature, call it RISE, is common to all operators. A second feature, ADD, is common to additivity and continuation. A third feature, CON, is restricted to continuation:

ACADEMIC RESEARCH IN EDUCATIONAL SCIENCES VOLUME 2 | ISSUE 9 | 2021

ISSN: 2181-1385

Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

of the last time or the previous few times; the other is the internal interpretation

method (additive interpretation), that is: Zhang San opens the door again. The door

has been opened before, but the person who opened the door before is not necessarily

John. This phenomenon can also be found in Chinese. Take the corpus expressing

"addition" in Ma Zhen (2000) as an example. Ma Zhen believes that "again" is used

to state past facts, which can mean repetition or addition. Examples of expressions of

addition include:

(6) a. Gāngcái wǒ mǎile yī zhī bǐ, yòu mǎile yīgè běn er.

b. Tā jīntiān sǎole de, yòu cāle zhuōzi.

c. Xiàbān hòu tā bùjǐn qù kànwàngle zhāng lǎoshī, érqiĕ yòu dào chāojí

shìchăng măile xiē chī de.

(Mă zhēn 2000)

Please see the Situation below:3

a. Comparison: [RISE] b. Additivity: RISE ADD c. Continuation: RISE ADD

From the perspective of determining the meaning of the grammar of the

predicate, it is not difficult to find that the two different VPs in the first example

sentence also imply "I bought something", while the two VPs before and after the

latter two example sentences imply "what did he do". The same meaning obviously

constitutes repetition. Therefore, we have reason to say that in the sentence

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

expressing "additive", "you" essentially still means a kind of "additive repetition". At

a certain level.

Similarly, Zhang Yisheng (2000) believes that the basic function of "you" at

this time is to act as a high-level predicate for subjective comments. Therefore, we

have reason to think that its scope is the entire sentence, so it means the

"repetitiveness" of the scope of "you" Such as:

(7)

a. Tā shàngwǔ chīle yīgè píngguŏ, gāngcái yòu chīle liăng gè (Zhang

Yisheng 2000)

English "more" can be interpreted in two ways, one is additive reading, and the

other is comparative reading. The two interpretations have different semantic

expressions. One feature, call it RISE, is common to all operators. A second feature,

ADD, is common to additivity and continuation. A third feature, CON, is restricted to

continuation:

If "again" modifies the verb "eat two apples", it must imply that you have

eaten two apples before, which is obviously wrong. At this time, "you" only means

the repetition of verbs, so "you" "again" is first combined with "eat(吃)" to form "又

吃" eat again, and then combined with the object. Therefore, the scope of "you" here

is a verb rather than a verb phrase.

Thomas (2011) pointed out that in different languages, the three semantics of

comparison, additivity and continuity are expressed in different words. Through

Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

cross-language research, it is found that there is no ambiguity about "more" in some languages. His strategy in the paper is to decompose each operator into different features, and determine one feature as the basis of three ambiguities. Team leader, he used the vocabulary to form the CAC (comparison; additivity; continuity) operator Shown<sup>3</sup>

(8)

a. Comparison : 
$$\begin{bmatrix} RISE \end{bmatrix}$$
 b. Additivity:  $\begin{bmatrix} RISE \\ ADD \end{bmatrix}$  c. Continuation:  $\begin{bmatrix} RISE \\ ADD \\ CON \end{bmatrix}$ 

The first characteristic Thomas pointed out is RISE, that is, RISE is the common base of three operators. The second characteristic is the common base of ADD additive and continuity. The third feature CON is limited to continuity. Thomas (2011) analyzed the three ambiguities of "more" in the paper. He pointed out that the correspondence between CAC operators in English is as follows.

(9)

$$a. \begin{bmatrix} RISE \\ END \end{bmatrix} \leftrightarrow \text{more} \qquad b. \begin{bmatrix} RISE \\ END \\ START \\ ADD \\ CON \end{bmatrix} \leftrightarrow \text{still} \qquad c. [START] \leftrightarrow \text{than}$$

He conducted a comprehensive analysis of the comparison, additive and continuity in the semantics of the phonetic phase, and tested the homomorphic patterns in several languages. In the thesis, the most important advantage of phonetic

3

<sup>&</sup>lt;sup>3</sup>Thomas, Guillaume. 2010b. Increment "more'. In Proceedings of the 20th Semantic and Linguistic Theory Conference edited by Nan Li and David Lutz, pages 233-250.

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

semantics is that it can express a rigorous decomposition analysis of comparison, additivity and continuity, thereby showing homomorphic patterns that are incomprehensible in form.

Thomas (2011) obtained the three semantics of CAC model from a crosslanguage perspective for classification. Although the distinction between "additive" and "comparative" in German is obvious, the meaning of "additive" is still ambiguous. In German, "noch" can mean two semantic "addition" and "continuity" at the same time, such as:

(10)

a. RISE
$$\leftrightarrow$$
 mehr b.  $\begin{bmatrix} RISE \\ ADD \end{bmatrix} \leftrightarrow$  noch c.  $\begin{bmatrix} RISE \\ END \\ START \\ ADD \\ uPOS \end{bmatrix} \leftrightarrow$  noch

"duo" in Chinese can mean "addition" and "comparison", but this semantic is not very obvious. Such as:

(11)

$$a. \begin{bmatrix} RISE \\ END \\ AND \\ START \\ ADD \end{bmatrix} \leftrightarrow \text{duoc.} \begin{bmatrix} RISE \\ END \\ AND \\ START \\ ADD \\ CON \end{bmatrix} \leftrightarrow \text{duoc.}$$

Vietnamese is the only language without this phenomenon. In Vietnamese, CAC is represented by different words. as follows:

(12)

## ACADEMIC RESEARCH IN EDUCATIONAL SCIENCES VOLUME 2 | ISSUE 9 | 2021

ISSN: 2181-1385

Scientific Journal Impact Factor (SJIF) 2021: 5.723 Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

$$\text{a.}RISE \leftrightarrow \text{hon} \qquad \text{b.} \begin{bmatrix} RISE \\ ADD \end{bmatrix} \leftrightarrow \text{n\~u} \quad \text{c.} \begin{bmatrix} RISE \\ ADD \\ CON \end{bmatrix} \leftrightarrow van$$

Thomas (2011) showed through the study of multiple languages that the interpretation of "addition" and "comparison" in these languages are all expressed in one word, and only Vietnamese uses different words to mean "addition" and "comparison". Explanation. As shown in Table 2.3Please see the table below: 2.3

Language	comparative	Addition	Continuity
Romanian	A	A	A
English, Chinese, French, Spanish,	A	A	A
Brazilian Portuguese			
German, Siberian, Hungarian, Italian,	A	В	В
Russian			
Vietnamese	A	В	С

This section adopts Thomas (2011)<sup>4</sup> Greenberg (2010) <sup>5</sup> and others to analyze the "more" in English with event structure, and believe that the Chinese "duo+VP" structure also contains additive interpretation. Danny wrote more add. "papers" sentence into an event e1 expressed by the active word wrote, and a change event e2 expressed by the active word, two The addition of atomic events constitutes the development of events expressed in the entire sentence. (e3 >developed e2) As shown in (13).

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<sup>&</sup>lt;sup>4</sup>Thomas, Guillaume. 2010b. Incremental 'more'. In Nan Li & David Lutz (eds.), Proceedings of the 20th Semantics and Linguistic Theory Conference, 233–250.

<sup>&</sup>lt;sup>5</sup>Greenberg (2010:161-162) analyzed the event structure of the English "Sara wrote papers.

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

(13) Sara wrote papers. Danny wrote more<sub>add</sub>. Papers [e1,t,x,y,e<sub>2</sub>, e<sub>3</sub>, t': t<n, write (e<sub>1</sub>),  $Ag(e_1) = d$ ,  $Th(e_1) = x$ , \*paper (x),  $\tau(e) \subset t$ , write (e<sub>2</sub>),  $Ag(e_2) = s$ ,  $Th(e_2) = y$ ,  $t' \leq t$ , \*paper(y),  $\tau(e_2) \subset t'$ , write (e<sub>3</sub>),  $e_3 = S(e_1 + e_2)$ ,  $Ag(e_3) = \uparrow d+s$ , The (e<sub>3</sub>) =  $\uparrow x+y$ ] 6Assertion: There is a writing eventuality e1 whose agent is Danny, whose theme is some plurality of papers, and whose time is included in a past time t. b.

<u>Presupposition:</u> There is a writing eventuality  $e_2$  whose agent is Sara and whose theme is some paper(s), such that

- i. The time of this eventuality e<sub>2</sub> is included in t', which is the same or prior to t
- ii. There is a singular writing eventuality  $e_3$ , resulting from the S-summing of  $e_1$  and  $e_2$ .

iii. The agent of  $e_3$  is the group of Danny and Sara (the agents of  $e_1$  and  $e_2$ ), and its theme is the group of papers x and y (the themes of  $e_1$  and  $e_2$ ).

## 2. Features of "duo+VP" Addition

The above mainly examines the "additive" interpretation of English "more" from a cross-lingual perspective. The ambiguity of English "more" is very enlightening to us. Foreign linguist Greenberg (2010b) Thomas (2011) discovered the ambiguity of "more" in a more detailed analysis. We can use the semantic expressions they pointed out to further interpret the "additive" of "duo" and express the semantic expressions. Such as (14)

<sup>&</sup>lt;sup>6</sup> Greenberg, Yael. 2010b. Aspectual and pragmatic constraints on the verbal additive particle more.

Scientific Journal Impact Factor (SJIF) 2021: 5.723

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

(14) a. Zhāng sān duō pǎole 20 fēnzhōng (bù)

Situation a: Zhang San has run on the treadmill for an hour; but he thinks that the intensity is not enough; he did not choose to stop; he performed the behavior (15a).

(15) a. Zhang San has ran for an hour to reach today's goal, but he felt that it was not enough, so he ran for 20 minutes.

Situation b: Zhang San completed the weight loss exercise (not running) in the gym; he believed that the weight loss intensity was not enough; Zhang San performed the behavior (15a).

b.Zhang San completed all the daily weight loss projects, but he felt very energetic today, so he came to the treadmill and ran for 20 minutes.

Situation c: Zhang San and his weight loss teammates ran together to lose weight; his teammates stopped taking a break after one hour of completion; Zhang San did not choose to stop; he performed the behavior (15a).

c. The teammates all paused the treadmill to rest. Only Zhang San still felt full of energy, so he ran on the treadmill for an additional 20 minutes.

The semantics of all the above-mentioned "duo" are above a certain level. But the three are different in semantics. According to the analysis of Thomas (2011), we can think that " $\mathbf{3}$ " (more) "in (15a) is an extension of a single event  $\mathbf{e}_1$ , namely  $[+\text{start}][-\text{end}][+\text{add}][+\text{end}] \rightarrow [\text{result}][\text{Continuation mark}]$ . The semantics of "duo" in (15b) is  $\mathbf{e}_1+\mathbf{e}_2=\mathbf{e}_3$ , the sub-event e1 is the daily weight loss project, and the sub-event

Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

e<sub>2</sub> is a 20-minute running. After the merger, it becomes the sub-event e<sub>3</sub> (that is, all of

Zhang San's weight loss exercise today ), which is

 $[+start][+end][result][+start][+add][+end] \rightarrow [result][Additivity tag].$  Most of (15c) is

different from the above two categories. We can think of it as e<sub>2</sub>-e<sub>1</sub>=e<sub>3</sub>, where the

sub-event e1 is the weight-loss exercise of teammates, the sub-event e2 is the weight-

loss exercise of Zhang San, and the sub-event e<sub>3</sub> is Zhang San. The difference

between sports and teammates' sports, namely [+start1][+end1]/[+start2][+end2]

 $\rightarrow$ [difference][Comparison mark].

Before we discuss the syntactic performance of this structure, we first analyze

the semantic differences in this structure. We follow the analysis of Thomas

(2011), the following example (16) can be interpreted differently in different

contexts.

Through the observation of different event types "duo+VP", it is found that the

semantics of "duo+VP" can be divided into three types. On the basis of the above

event structure theory, we make a similar analysis of the events expressed in the

Chinese "duo+VP" structure. From the perspective of additive semantics, the

meaning of Chinese "duo2" expresses the situation: After an action occurs, it is

emphasized by "duo<sub>2</sub>" to happen again. Such as:

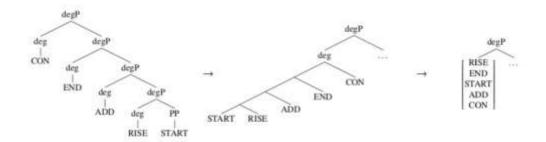
(16) a. Zhāng sān duō pǎole 20 fēnzhōng (bù).

b. Zhāng sān bǎ jīdàn duō zhǔle 5 fēnzhōng.

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Situation (16a) Zhang San has run on the treadmill for an hour; but he thinks that the intensity is not enough; he did not choose to stop; he performed the behavior of (16a). In example (16a), Zhang San has already ran for an hour to reach today's goal, but he felt that it was not enough, so he ran for 20 minutes. Situation (b) Zhang San boiled eggs in the kitchen; but he thought that they could not be cooked well, so he performed the behavior (16b). Example (16b) Zhang San cooked eggs in the kitchen, but he felt that they were not cooked enough, so he cooked them for 5 more minutes. "duo" in the example sentence (16ab) is an extension of a single event e₁, namely [+start][-end][+add][+end] →[result]. His semantic expression is: Please see the situation below:1



(17) a.Zhāng sān duō pǎole 20 fēnzhōng (bù).

b.Zhāng sān duō cǎifǎngle 2 míng wàiguó xuéshēng.

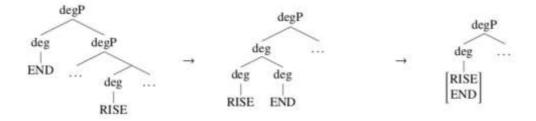
Situation (17a) Zhang San completed the weight loss exercise (non-running) in the gym; he believed that the intensity of weight loss was not enough; Zhang San performed the behavior (17a). In the example (17a), Zhang San completed all the

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daily weight loss programs, but he felt very energetic today, so he came to the treadmill and ran for 20 minutes. Situation (b) Zhang San completed the job of interviewing the principal in the classroom; he thought it would be just right to interview a few students; Zhang San performed the behavior (17b). In example (17b), Zhang San completed the project of interviewing the principal, but he felt that it was just right to interview a few students, so he went to the library to interview two more foreign students. The semantics of "duo" in the example (17b) is  $e_1+e_2=e_3$ , the subevent  $e_1$  is the daily weight loss item, and the sub-event  $e_2$  is a 20-minute run. After the merger, it becomes the sub-event  $e_3$  (that is, Zhang San's total weight loss today Movement), which is  $[+start][+end][result][+start][+add][+end] \rightarrow [result]$ . His semantic expression is: 18(Situation:2) Please see the table below: 2



In other words, (17) and (18) are all sums, and the difference is that there is no stop in between, that is, whether it is a single event or a compound event. (19) It cannot be counted as a simple addition, because Zhang San did not run 20 minutes more on the basis of his teammates, but added 20 minutes on the basis of his one-hour step. The same example can also be explained using Thomas' example sentences.

(19) Mary wrote papers. John wrote more papers.

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If Mary and John are involved in the same project, John has increased the number of papers on the basis of Mary, that is, sum. If Mary and John are doing individual projects separately, then more=QUANTITY<sub>John</sub> – QUANTITY<sub>Mary</sub>.

#### **CONCLUSION**

	additive	comparative
$e_1$	+	-
$e_1 + e_2 = e_3$	+	-
$e_2 - e_1 = e_3$	-	+

#### REFERENCES

- [1] Hopper, Paul J. & Sandra A. Thompson. Transitivity in grammar and discourse[J], Language1980, 56, (2).
- [2] Hackl, M. (2000). Comparative quantifiers. PhD dissertation, Cambridge, MA: MIT, MITWPL.
- [3] Greenberg, Y. (2008). Summed Eventualities with Nominal and Verbal Additive particles Workshop on Nominal and Verbal Plurality, 7.11.08, Paris.
- [4] Landman, F. (1992). "The Progressive." Natural Language Semantics 1.1-32. Landman, F. (2000) Events and Plurality: The Jerusalem Lectures. Dordrecht: Kluwer.
- [5] Lasersohn, P. (1995). Plurality, conjunction and events. Dordrecht: Kluwer 15:381-410.

Scientific Journal Impact Factor (SJIF) 2021: 5.723 Directory Indexing of International Research Journals-CiteFactor 2020-21: 0.89

DOI: 10.24412/2181-1385-2021-9-743-763

- [6] Moltmann, F. (2004) The Semantics of Together, *Natural language semantics*, vol. 12, 2004, p. 289-318
- [7] Nakanishi, K. (2007) "Measurement in the nominal and verbal domains."Linguistics and Philosophy 30
- [8] Rothstein, S. (2004), Structuring Events. Oxford: Blackwell.
- [9] Schwarzschild, R. (2002). The grammar of measurement. The Proceedings of SALT XII, 225–245.
- [10] Tovena M. and M. Donazzan (2008) On ways of repeating. Recherches Linguistiques de Vincennes 37: Aspect et Pluralite Verbale.
- [11] Umbach, C. (2008), "Comparatives Combined with Additive Particles", S&B 13, Stutgart.
- [12] Sybesma, R. (1999) The Mandarin VP[M]. Dordrecht: Kluwer Academic Publishers.
- [13] Li, Xiao. (2009). Degreeless Comparatives. Ph.D. thesis. Rutgers University, New Brunswick.
- [14] Lu, J.-M. (2005). Xiandai hanyu yufa yanjiu jiaocheng [Lecture notes on syntax of modern Chinese]. Bejing: Peking University Press.