On the Identity and Uses of Cantonese Sentence-final Particles in the Late 20th Century: The Case of wo (喎) and bo (噃)

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Abstract
This paper mainly describes the uses of the frequently used sentence final particles wo3 and bo3 in the 1990s in Hong Kong Cantonese by examining speech data. In the past twenty years, most experts treated wo3 and bo3 as variant forms, the former being the result of sound change from the latter (Kwok 1984, Luke 1990, Li 1995, Fang 2003). In order to verify whether wo3 and bo3 are different particles or free variations of the same particle, the synchronic picture of the two particles will be considered by comparing their uses and functions in the 1990s with the language examples from the Hong Kong University Cantonese Corpus and local movies.

Keywords: Cantonese, Sentence-final Particles, Late 20th Century, Spoken data, Synchrony

1. Introduction

1.1 Cantonese sentence-final particles
Sentence final particles (hereafter SFPs) in Cantonese play an important role in determining the function of sentence. They are scarcely found in formal writing but their presence in common conversation is massive. SFPs function to convey speech act information and often have grammatical functions, such as changing a declarative sentence into an interrogative one.

Most researchers (Cheung 1972, Kwok 1984, Ouyang 1990, Luke 1990, Deng 1991, Matthews & Yip 1994, Li 1995, Fang 2003, Leung 2005, Cheung 2007) have come to consider that SFPs as mainly conveying the speaker’s emotions and attitudes, and that they are found in casual conversations only. Some sources on Cantonese have identified thirty or more basic forms (Kwok 1984) and over forty-five possible particle clusters (Leung 2005). Cheung (2007:183-208) pointed out that there are as many as seventeen particles commonly found in everyday conversation, which are often used in clusters of two to four, namely lo1, bo3, aα3, wo2, tim1, gwa3, me1, zel, maa3, nel, ge2, lai4, sin1, zyu6, faat1, baa2laa1 and hai2laa1.

1.2 Research motivation
Among the basic SFPs that are used in everyday conversation, wo3 (喎, mid level tone) is certainly the one with high frequency. In terms of frequency of usage of wo3 and bo3, there is an imbalance between them as wo3 has entirely surpassed the using of bo3 (噃, mid level tone) in today’s Hong Kong Cantonese. According to the Hong Kong University Cantonese Corpus (HKUCC, see 1.3), the appearance of the two is 602 to 16 in ratio, wo3 is about 38 times as frequently used as bo3 in contemporary Cantonese. However, teaching materials and academic books have only occasionally mentioned wo3 and the explanations are often too short. If wo3 is not seen as “the same as bo3”, it is being thought of as the variant or weakened form of bo3. Then the major effort is put on explaining the function, usage and meaning of bo3. Undeniably, among these archives, we get an impression that the two SFPs wo3 and bo3 have very close relationship; in other words, they are described to be the same essentially.

Luke (1990) is the one who firstly realized that wo3 has already changed to become an SFP with high frequency of daily use and through frequent use has gained itself an independent position different from bo3. His work has an entire chapter devoted to the detailed discussion of wo3. He has concluded the meaning of wo3 as “unexpectedness, noteworthiness, remarkableness, unusualness…etc”. After Luke has noted the new status of wo3, there have been scholars noticing and discussing this SFP continuously over the past decades (Ouyang 1990, Matthews & Yip 1994, Leung 2005). They point out
that the meaning of wo3 is “reminding, discussing and enlightening”, which is very similar to the
definition of bo3 in the earlier works (Ball 1888, O’Melia 1954, Cheung 1972). This suggests the
current SFP wo3 could have been derived from bo3. Table 1 concisely summarizes scholars’ views on
the usage of and the tones expressed by bo3 and wo3 from 1888 to 2007. Unlike the particle bo3, it can
be seen that there was little mention of wo3 among them before the 1990s. With this background, it
seems reasonable to proceed one step further to present a synchronic analysis by examining the data of
colloquial speech in detail to verify the differences between bo3 and wo3 in Hong Kong Cantonese in
the late 20th century, and this is the goal of this paper.

The “Cantonese” in the following discussions is the variety spoken in Hong Kong and the Jyutping
Romanization scheme (粵拼, Linguistic Society of Hong Kong 1993) is adopted for the notations of
Cantonese sounds.

1.3 Data collection

It is noted that the best source of information for linguistic features is a large corpus of colloquial
speech for us to perform statistical analyses. Since a speech corpus is constructed using real data and so
is highly representative, our analysis will no longer be based on a small sample or subjective feelings.
The Hong Kong University Cantonese Corpus (HKUCC) was set up out of such objective. The
language examples for the 1990s in this paper fundamentally come from the HKUCC, and are
supplemented with two popular Cantonese movies produced in the 1990s, namely “Fight back to the
school I” (Fight 1991) and “Fight back to the school II” (Fight 1992). The movies starred Stephen
Chow S. C., one of the best known actors then in Hong Kong. Below is a brief background of the
HKUCC.

In the 1990s the University of Hong Kong established a corpus made up of a large amount of
Cantonese speech and conversational recordings which have been fully transcribed, segmented, tagged
and parsed. HKUCC was built up on the basis of a research project entitled “Constructing a Database
of Spoken Cantonese with English Translation and On-line Dictionary”, funded by the Hong Kong
Research Grants Council (HKU 397/96H). These speech data are all genuine, colloquial, unscripted,
spontaneous speech as heard in everyday conversations. In the 150 recordings of this 200,000 word
corpus, 67 were conversations between 2-3 speakers, 51 were radio broadcasts and 32 were stories told
by one story-teller. It is also equipped with quick and convenient searching and retrieving tools.

By systematically recording a substantial amount of speech, the HKUCC provides researchers with a
convenient and reliable way of checking and substantiating speakers’ feelings and intuitions about their
language. Take frequency information as an example, if it were not with the HKUCC, one would not be
able to quantify the relative degree of use of the SFPs bo3 and wo3. A quick check of the corpus reveals
that the use of these two particles is in a ratio of 16:602; wo3 is about 38 times as frequently used as
bo3 in contemporary Cantonese. Of the entire corpus mentioned above, this research focuses on 8
hours of data.

2. The uses of wo3 in the late 20th century

In modern Cantonese, wo3 is an SFP used with a high frequency. Some recent researches have shown
that this particle is used to show “realization and reminders” (Rao 1983, Kwok 1984, Ouyang 1990,
Deng 1991, Leung 1992, Fang 2003). Wo3 can be commonly used at the end of declarative and
exclamatory sentences. Consider some common examples:

Example 1 (Fight 1992)
今日 天氣 好 好 喝
gamjat6 tin1hei3 hou2 hou2 wo3
today weather very good SFP
“The weather is very good today!”
Example 1 is a declarative. *Wo3* in this sentence expresses mirativity (DeLancey 1997, Matthews 1998a). The speaker expresses surprise or wonder at the unusually or unexpectedly pleasant weather. Example 2 is a reminder “you should know smoking is not allowed here”. Example 3 is an exclamatory sentence. The particle *wo3* can be used in different types of sentences expressing various tones of voice in conjunction with different lexical and intonational devices. In the HKUCC, the SFP *aa3* (啊), found to be the most frequently occurring, is used more than 2000 times. However, the expressive function of *aa3* is not as specific as that of *wo3* since its major function is to soften the tone of a statement (Leung 2008).

According to our observations of the HKUCC data, in present-day Cantonese, the SFP *wo3* is primarily used to convey the meanings of: (1) Realization, (2) Reminder, (3) Hearsay and (4) Contrast. Two examples of each are shown below with explanations.

2.1 Realization

In Example 4, Speaker A reminds Speaker B that it is nearly three o’clock and as a result Speaker B remembers that there is a scheduled gathering so she may need to do some preparations. In Example 5, the speaker takes some bones to feed a dog, and then remembers that in the backyard there is also a cat, which might be hungry then, and so he takes some food to feed the cat too. Unlike the reminder, the one who “realizes” that something has to be done is the speaker himself.

Example 4

A: 三 點 時

saam1 dim2 laa3 three o’clock SFP

“It’s three o’clock already.”

B: 係 時，佢 嗜 會 時 時

hai6 wo3 keoi5 dei6 wui5 lai4 laa3 yes SFP, they AUX come SFP

“Oh yes. They are coming soon.”
2.2 Reminder

“Reminder” and the above-mentioned “Realization” are two sides of the same coin. In “reminding”, it is the speaker who reminds the hearer and consequently the hearer remembers something, while in “realization”, the speaker suddenly realizes something as a result of the reminder by someone or some situations, and in this case it is the speaker who remembers something. Each of the two examples below shows a situation where the hearer remembers something as a result of the reminder of the speaker. In Example 6, Speakers A and B are discussing Chinese tea and milk tea. Prior to this exchange, Speaker B said that milk tea certainly does no harm to his stomach and he always drinks Chinese tea. But Speaker A reminds B that Chinese tea is mild, which is different from milk tea. In Example 7, someone asks the speaker to help return some books to the library, but the speaker refuses and gives the reason that he is too busy, and he also reminds the hearer that returning books to the library is very simple as one needs only to place the books in the bookdrop.

Example 6 (HKUCC)

A: 饮 奶 茶 同 饮 茶 都 嗑 同 嗑，唔 会 點 解

飲奶茶同飲茶都唔同嘅，唔唔到點解

drink milk tea and drink tea ADV NEG same SFP, NEG know why

飲奶茶同飲茶都唔同嘅，唔唔到點解

drink milk tea milk tea AUX weaken-stomach ASP SFP, because it

濃得咁呀？

nong4 dak1 zai6 aa4
consentrated COMP excessive SFP?

“You know, milk tea and plain tea taste different. I don’t know why milk tea weakens the stomach. Is it because it is too concentrated?”

B: 係 啊。濃啲。

hai6 aa3 nong4 di1
COP SFP concentrated ASP

“Yes, it’s more concentrated.”
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2.3 Hearsay

The third category is “hearsay”, that is reporting other people’s speech. Back at the end of the 19th century, the function of  was already identified as “denoting that the statement preceding it has been made by some one before” (Ball 1888). In modern Cantonese, there are two particles which express hearsay function, namely  and . In many situations, these two particles are interchangeable, but there are subtle differences between the two (Leung 2009). In Example 8, the speaker conveys good wishes to the hearer from someone else who is not present. In Example 9,  also has a hearsay function, as the speaker asks the other party who plays most wildly and the hearer answers that he plays most wildly. The particle  at the end of the sentence expresses the fact that this assessment is from someone else other than the speaker.

Example 7 (HKUCC)

```
你 千祈 唔 好 搅 我 啊，我 已經 九 個 project 啊。
nei5 cin1kei4 m4 hou2 wan2 ngo5 aa3, ngo5 ji5ging1 gau2 go3 project aa3,
1SG ADV NEG good find 1SG SFP, 1SG already nine CL project SFP,
你 自己 去 運 啦，你 自己 隊 埋 去 哥
nei5 zi6gei2 heoi3 waa4 laa1, nei5 zi6gei2 deoi6 maai4 heoi3 wo3
2SG self go return SFP, 2SG self hand in ASP go SFP
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“Don’t ask me to do it as I have nine projects at hand already. Why don’t you go yourself? You just need to drop it.”

2.4 Contrast

The fourth category is “show an element of Contrast”. In Example 10, Speaker A hears some noises in the car park and feels worried, as there are valuables in the car. He then asks Speaker B whether everything is fine. Speaker B replies that, contrary to A’s worries, there is no problem with the car. In Speaker B’s reply,  appears at the end of the utterance and conveys the meaning “in spite of appearances or what you think, the car is okay”. Thus, the particle shows that the message contains an element of “contrast”. Similarly, in Example 11, Speaker A says that there is no one in the room, but Speaker B discovers that the grandmother is in the room and reminds Speaker A that the actual situation is different from the one he described, despite the fact that Speaker A implies that whether the grandmother is present or not will not affect them in any way. The  at the end of Speaker B’s utterance again carries an element of “contrast”.

Example 8 (Fight 1991)

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佢 話 問候 你 啊， 王 Sir！
keoi5 waa6 man6hau6 nei5 wo3, wong2 sir
3SG say greet 2SG SFP, Wong Sir!
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“He has asked me to send his regards to you, Mr. Wong!”

Example 9 (HKUCC)

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我 問 阿甲 呢， 邊個 玩 得 最 夭 呢，
ngo5 man6 aa3gaap3 ne1, bin1go3 waa2 dak1 zeoi3 din1 ne1,
1SG ask PRE-A SFP, who play COM most wildly SFP,
佢 話 佢 啊。
keoi5 waa6 keoi5 wo3
3SG said 3SG SFP.
```

“I asked him who played the most wildly, and he said he did.”
It is worth mentioning that \textit{wo3} can also appear at the end of imperative and exclamatory utterances to carry a sense of emphasis. It should be noted that the use of the sentence final particle \textit{wo3} with imperative and exclamatory utterances is possibly new; as such usage is not found in the data of the early 20th century (Wisner 1906, Ball 1924, Sung 1934). Example 12 is a dialogue between a leader and his attendant. "Follow me closely" is an order to be followed strictly. If \textit{wo3} is replaced by another particle such as \textit{aa3}, the tone-of-voice of the utterance is not changed, but the particle \textit{wo3} gives the hearer a strong sense of "reminder". In Example 13, the speaker is at a friend’s home and expresses his exclamation as he is watching the beautiful sea view from the living room. \textit{Wo3} serves as a reminder to the friend and intensifies the exclamation. This use of \textit{wo3} with imperative and exclamatory utterances seems to be a
novel one. Moreover, the category mirative in this example indicates unexpected information (such a fantastic view) which the speaker does not anticipate.

**Imperative**

Example 12 (Fight 1991)

一陣你要跟實我瞞，
jat1zan6 nei5 jiu3 gan1 sat6 ngo5 wo3
later 2SG must follow closely 1SG SFP
咪又再闖禍啊
mai2 jau6 zo3 cong2wo6 aal
NEG again again make trouble SFP
“Remember, follow me closely and don’t make trouble again.”

**Mirative**

Example 13 (Fight 1991)

嘩，個景好靚嘅！
waa3, go3 ging2 hou2 leng3 wo3
INJ, DEM view INT pretty SFP
“Wow, the view is very beautiful!”

2.6 Short summary

We saw in this section from our observations of the spoken data, in the 1990s, the particle wo3 was mainly used to convey the moods of: (1) Realization, (2) Reminder, (3) Hearsay and (4) Contrast. It is also used with imperative or exclamatory utterances, in which the tone-of-voice is not expressed by wo3 but by the imperative or exclamatory utterances themselves. This usage of wo3 is hardly found in the past corpus data; it is a novel usage and serves to indicate the fact that the functions of the particle wo3 are still evolving. In the next sections, the uses of bo3 in the late 20th century will be discussed and compared with those of wo3.

3. The uses of bo3 in the late 20th century

In the HKUCC, the SFP bo3 occurs very rarely as an independent SFP. Only five cases were found. Out of the five cases, four are used in short negative sentences while only one case is positive. It is clear that the mood conveyed by this particle is to show “contrast”. The following are the five examples of bo3 used singly found in the HKUCC. It is used with short negative sentences in four examples to indicate “contrary to the listener’s expectations” (see 3.1), and is used in one single example conveying “realization” (see 3.2).

3.1 Contrast

The SFP bo3 in the first four examples below is used with short negative utterances to show “contrast”:
This dialogue happened late at night. Speaker A said that it was possible to increase the volume of the Hi-Fi, but Speaker B immediately reminded him, contrary to his expectation, that if the volume was too high, his neighbour could complain about it to the police. In Speaker B’s utterance, \( bo3 \) shows “contrast”, and \( wo3 \) at the end of the last utterance “s/he can call the police” has a reminding function, bringing the hearer’s attention to the situation which the hearer should have knowledge of, but is not currently thinking about. Therefore, the functions of these two particles are different.

Example 14 (HKUCC)

A: 你 fang4 機, 我開大啲
    nei5 fang4 gei1, ngo5 ho1 daai6 di1
    2SG play machine, 1SG turn on loud ASP

“A: You want to play the Hi-Fi, I turn it louder.”

B: 唔係嘅, 佢係你 fang4 機, 佢可以搫差人嘅
    m4 hai6 bo3, daan6hai6 nei5 fang4 gei1, keoi5 ho2ji5 wan2 caa1jan4 wo3
    NEG COP SFP, but 2SG play machine, 3SG AUX find police SFP

“No, but if you play it too loud, s/he can call the police”.

Example 15 (HKUCC)

唔係嘅, 佢係都係嘅嘅, 因為……
    m4 hai6 bo3, keoi5dei6 dou1 hai6 gam2 ge3, jan1wai6
    NEG COP SFP, 3PL ADV COP this GEN, because

“No, (contrary to what you think) they also did so because……”

In the above example, the hearer dislikes the way some people have acted and believes other people may not act this way. The speaker immediately explains to him that the situation is actually the same, and that there must be a reason why the people acted that way, and then he provides the reason to the hearer. The SFP \( bo3 \) functions to show contrast, that is, to show the thing which is different from what the hearer thinks.

The two examples below also reveal the crucial function of \( bo3 \) is to show that something is contrary to the hearer’s expectations. In Example 16, the speaker means he does not have the knowledge or control of the matter that the hearer asked, and he asks the hearer to seek the answer from the persons who are responsible for the matter. In Example 17, Speaker A asks Speaker B whether C has ever gone out. The particle \( bo3 \) in Speaker B’s reply “No” carries a sense of “contrast” meaning despite of A’s doubt, C keeps staying in the room.

Example 16 (HKUCC)

我都不唔知嘅, 嘢啲嘅事係人事部,
    ngo5 dou1 m4 zi1 bo3, li1di1 je5 hai6 jan4si6bou6,
    1SG ADV NEG know SFP, DEM-PL stuff COP personnel department,
    你問返人事部
    nei5 man6 fuan1 jan4si6bou6
    2SG ask ASP personnel department

“I don’t know either. This is the business of human resource department, you should ask them.”
3.2 An exceptional case

Out of the five cases of the single \textit{bo3} found in the spoken data, only the following example is an exceptional case which appears in the positive sentence and conveys the mood of “realization”:

\textbf{Example 18 (HKUCC)}

\begin{center}
\begin{tabular}{l}
A: 係 啊 央 代 同 堂 叨 嘛 我嘅。
\textit{hai6 aa3, sei3 doi6 tung4 tong4 aa1 maa3 ngo5 dei6}
\textit{COP SFP, four generation same house SFP SFP 1PL}
\end{tabular}
\end{center}

\begin{center}
\begin{tabular}{l}
“Yes, we are four generations in a house.”
\end{tabular}
\end{center}

\begin{center}
\begin{tabular}{l}
B: 真係 稀利 果然 係 大 家族 嘛
\textit{zan1 hai6 sai1 lei6, gwo2 jin4 hai6 daai6 gaa1 zuk6 bo3}
\textit{Really COP great, ADV COP big family SFP}
\end{tabular}
\end{center}

\begin{center}
\begin{tabular}{l}
“Wow! You really have a big family!”
\end{tabular}
\end{center}

In the above example, the particle \textit{bo3} can be substituted by \textit{wo3} in modern Cantonese, not only with no change in meaning but also with more naturalness. Speaker A tells Speaker B that his parents, grandparents and great grandparents are alive and well, and so four generations are present together, which is regarded as a blessing in the eyes of the Chinese. Speaker B agrees with Speaker A that Speaker A does have a big family, showing his realization of something that he did not know before, and the particle \textit{bo3} in this example functions to show “realization”, different from the four examples above. “Realization” was once the old usage of \textit{bo3} (table 1) and is infrequently used to show “realization” nowadays. It is the basic function of modern Cantonese particle \textit{wo3} (see 2.1). Since in the HKUCC there is only one example of such use, we lack evidence to prove that such usage is the function of the particle \textit{bo3}. It would be better to treat this function as a residue of the old usage of \textit{bo3}.

Moreover, in Hong Kong Cantonese the particle \textit{bo3} can normally be used together with \textit{gaa3} (and its variant \textit{go3}), \textit{lau3} (and its variant \textit{lo3}), \textit{tim1} and \textit{zaa3} to form the two-particle clusters \textit{gaa3bo3}, \textit{lau3bo3}, \textit{timbo3} and \textit{zaa3bo3}, and three-particle clusters \textit{gaa3lau3bo3} and \textit{gaa3zaa3bo3}.

3.3 Short summary

The data show that in modern Cantonese, the fundamental function of the SFP \textit{bo3} is to show contrast in the short negative sentences. It is less often used singly and appears very rarely as an independent SFP. \textit{Bo3} tends to be used mainly with other particles to form particle-clusters, such as \textit{gaa3bo3}, \textit{tim1bo3}, \textit{zaa3bo3} and \textit{golobo3}. This characteristic of \textit{bo3} makes it distinct from other Cantonese SFPs, some of which can only be used singly but not in particle clusters (e.g., \textit{aa5}, \textit{le5}), others can be used both singly and in particle-clusters (e.g., \textit{gaa3}, \textit{lau3}) but their primary uses are not in particle-clusters as is the case of \textit{bo3}.

Earlier literature shows that \textit{bo3} could be used singly as well as in particle-clusters such as \textit{gaa3bo3}, \textit{lau3bo3} and \textit{gaa3lau3bo3}. In contrast to the very few examples found in the spoken data, quite a number of examples of \textit{bo3} used singly can be found in earlier literature. The decline in the single use
of bo3 may be due to its replacement by wo3 in the situations where bo3 could once be used independently, that is to say, the two particles have merged as speakers chose to use the less effortful particle wo3, and consequently wo3 has gradually taken up the various functions of bo3 and appears more frequently nowadays than bo3. However, bo3 has not become extinct; it still retains its importance in particle-clusters such as gaa3laa3bo3 and has not been totally replaced by wo3.

4. Major findings and conclusions
From the above examples and discussions, we see an imbalance of the frequency of use of the particles wo3 and bo3 in the language materials of the 1990s. The functions of the two particles mentioned in the previous sections can be illustrated as follows:

| Stage  | Functions of wo3 | Functions of bo3 |
|--------|------------------|------------------|
| 1990s  | (1) Realization  | (1) Contrast      |
|        | (2) Reminder     |                  |
|        | (3) Hearsay      |                  |
|        | (4) Contrast     |                  |

Performing four functions, the SFP wo3 in the late 20th century can be described as functionally versatile. It can also be used at the end of imperative and exclamatory sentences, a feature which cannot be found in past materials and thus believed to be a novel usage. In other words, the functions of wo3 seem to be expanding continuously.

As for the SFP bo3, the situation goes in the opposite direction. As we consult the past materials, the current finding almost excludes the usual tone of “emphasizing” which was commonly claimed by scholars in the early and middle of the 20th century (Ball 1888, 1924, O’Melia 1954, Cowles 1965). However, in contrast to the functionally versatile wo3, in the late 20th century its functions seemed to be contracting and there are no signs of its further development. From the examples of this particle in 3.1, the major use of the SFP bo3 is to show “contrast” in negative sentences. Moreover, it is remarkable that bo3 was rarely used singly in the late 20th century but tended to be generally used with gaa3, laa3, tim1 and zaa1 to form particle-clusters.

To sum up, the two SFPs carry and serve different meanings and functions in modern Hong Kong Cantonese, and thus they are not exactly the same particles and not interchangeable as previously assumed. Since recent scholars have tended to associate wo3 with bo3 (Kwok 1984, Ouyang 1990, Li 1995, Fang 2003) and the frequency of bo3 has greatly dropped over the past decades, it seems reasonable to figure out the relationships between the two particles diachronically to see how the particle wo3 has gradually developed in history and what functions it has performed by examining the diverse data in detail. Furthermore, the uses of the particle-clusters involving bo3 in different periods of time are also worth studying in order to clearly show how bo3 has changed in the past one hundred years.

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| Scholars         | Usage of bo3                                                                 | Usage of wo3                                                                 |
|------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Ball (1888)      | Very emphatic, used alone, or used with the final lo (囉) or lok (咯).        | denoting that the statement preceding it has been made by some one before   |
| Wisner (1906)    | Imperative: the most decisive that can be used                              | No mention                                                                  |
|                  | Declarative: used in giving a decisive declaration with reference to anything |                                                                              |
| Ball (1924)      | Very emphatic, used alone, or often after the final lo (囉)                   | denoting that the statement preceding it has been made by some one before   |
| Sung (1934)      | Meaning you do not understand it yet, that deed is really so.               | No mention                                                                  |
| O’Melia (1954)   | Emphatic declarative                                                        | No mention                                                                  |
| Cowles (1965)    | A final: emphatic                                                           | No mention                                                                  |
| Cheung (1972)    | Providing opinion, emphasizing                                               | No mention                                                                  |
| Lau (1975)       | Sign of an emphatic reminder or complaint                                   | No mention                                                                  |
| Rao (1983)       | Reminding, advising                                                          | No mention                                                                  |
| Kwok (1984)      | Remind the hearer to take something into special consideration              | Weakened form of bo3                                                       |
| Luke (1990)      | Variant form of wo3                                                         | Unexpectedness, noteworthiness, remarkableness, unusualness                |
| Ouyang (1990)    | Tones of negotiating, addressing criteria and request, waiting for reply, orders and command. | Reminding, discussing or enlightening, same as bo3, but                    |
| Author       | Description                                                                 | Tone                           |
|-------------|------------------------------------------------------------------------------|--------------------------------|
| Deng (1991) | Feeling of the speaker, negotiating with others, reminding, urging.          | Lighter in tone.               |
| Leung (1992)| Lack of self-opinion, asking for advice and agreement, begging for reminders, milder than wo3 in tone. | No mention                     |
| Matthews & Yip (1994) | Exclamatory, appreciative                                                   | Informative (noteworthiness)   |
| Li (1995)   | Emphasizing, to draw the hearer’s attention to what may be neglected, or the speakers suddenly notice a situation. | Weakened form of bo3.         |
| Fang (2003) | Reminding, emphasizing, exclaiming, blaming and enlightening and accusing.  | Weakened form of bo3.          |
| Cheung (2007)| Providing opinion, emphasizing                                               | No mention                     |

**List of abbreviations**

- ADV: Adverb
- ASP: Aspect
- AUX: Auxiliary
- CL: Classifier
- COMP: Complement marker
- COP: Copular
- DEM: Determiner
- DM: Discourse marker
- GEN: Genitive
- INJ: Interjection
- NEG: Negator
- PL: Plural
- PRE: Prefix
- SFP: Sentence-final Particle
- SG: Singler