

Expressives in Kam (Dong 侗): A study in sign typology (Part II)*

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Like many Austro-Tai languages and many Sino-Tibetan languages, Kam (Dong 侗) exhibits a wealth of descriptive syllables after the verb or the adjective. These syllables, henceforth called *expressives*, are typically reduplicated and cover a wide range of functions such as grading, speed and manner modification, and various kinds of sound symbolism, metaphor, etc. I propose to view the expressive compound as a sign: the predicate-head functions as the *signified* and the expressive as the *signifier*. In fact, since the predicate-head itself has the classical Saussurean sign anatomy, the head-expressive compound presents the case of a complex sign or what I call a second-order sign. The attested types of relationship that hold between the signified and signifier spread across almost the whole spectrum of sign species recognized in the literature. This paper is the result of a survey of ca. 260 expressives and is one of the achievements of a long-term Kam dictionary project.

Key words : Tai-Kadai, Kam, semantics, semiotics, expressives, onomatopoeia.

Comme beaucoup de langues austro-tai et sino-tibétaines, le kam fait un abondant usage après le verbe de syllabes descriptives. Ces syllabes, dites "expressives", sont généralement redoublées et remplissent de multiples fonctions linguistiques : spécification de degré, de vitesse ou de manière. Elles renvoient à divers symbolismes sonores, métaphores etc. Le composé "prédicat-syllabes expressives" est ici analysé comme un signe. Le prédicat, en lui-même signe saussurien, a rôle de *signifié* et les syllabes expressives celui de *signifiant*. Le composé en question serait un signe complexe de second ordre dont les relations entre signifié et signifiant recouvrent toutes celles décrites dans la littérature. Cet article, résultat de l'examen de près de 260 items expressifs, s'inscrit dans un projet à long terme d'un dictionnaire du kam.

Mots clés : Tai-kadai, kam, sémantique, sémiologie, expressifs, onomatopées.

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3. LINGUISTIC-FUNCTIONAL ACCOUNT OF KAM EXPRESSIVES

There is a whole subclass of Kam expressives which does not fit in the semiotic framework but functions clearly as adverbials of the following types: degree adverbs (section 3.1.), manner adverbs (section 3.2.). These expressives modify the clause at the situational level. It means that they never provide speaker level modifications such as: a) subjective modifications (e.g. 'hopefully'), or b) evidential (e.g. 'obviously', 'allegedly').

3.1. Degree adverbs

There is a flurry of literature on the notion of adverbs of degree, but the modifiers examined there concern 'very', 'extremely' and the like. Virtually nothing has been written on degree modifications like 'brand-new', 'stark-mad', etc which are English approximations for (some of) the Kam adjectival expressives. In what follows I will point out similarities and differences between the adjectival expressives and those more standard (universal?) adverbs of degree (= 'very', 'extremely', etc).

My reflection concentrates on the notion of 'scale'. In lexical semantics, the study of scales also called "semantic fields"¹ or "notional domain"², has a long tradition. Scales are mental (linguistic) abstractions from a myriad of phenomenal occurrences. For example, sentences (21), (22) and (23) report on phenomenal occurrences.

¹ This term was/is popular with the adherents of the componential analysis, mainly naturalists and fieldworkers of the 1960s and 1970s. A semantic field is defined as "a group of words closely related in meaning, often subsumed under a general term" (Lehrer 1974: 1).

² Culioli (1990), inspired by the mathematical concept of a topological space, associates to every lexeme a notional space (domain) which he views like an open subset of a topological space. (The topological space contains all the notional domains.) Like every open set of a topological space, the notional domain has an attractor center (Culioli: "là où il y a le plus haut degré de modalité exclamatoire") and a gradient which measures the distance between the value of a modification (e.g. 'assez grand') with its attractor centre.

- (21) 'Two weeks ago a new teacher arrived in the school.'
 (22) 'Yesterday they bought a new car.'
 (23) *'The mountain is new here.'

The scale of the adjective 'new' captures properties or differences of the time frame for which it is an adequate label, of the entities (arguments) it can apply to and of many more modalities (e.g. 'newness through what type of introduction'). The scale of 'new' is the cognitive abstraction of its pragmatic uses. When the task is to describe concretely the scale of 'new', it is only possible to deliver approximations or simplifications. An approximate characterization would be:

- Temporal distance to time of speaking (first axis): One day, one week, one month...
- Nature of argument (second axis): Human, animal, object...

Consider another famous example of Rosch (1978) with the prototypical (i.e. approximate) description of the scale of 'bird':

- [+/-] Feathers (first axis)
- [+/-] Wings (second axis)
- [+/-] Two legs (third axis)
- [+/-] Can fly (fourth axis)

The difference of (the approximation of) the scale of 'new' and the scale of 'bird' is that for 'new' the degrees lie on *continuous* axes or, in other words, the scale of 'new' itself is *continuous*, whereas for 'bird' there are exactly $2^4 = 16$ degrees which means that the scale of 'bird' is *discrete* (cf. Haag 1997 who employs a similar terminology).

I call *adverb of degree* (in the larger sense) every adverb which restricts the set of possible values represented on a scale. The Kam adjectival expressives are always subordinated to their head and hence are adverbs of degree. After preparing the terminology, I come now to the similarities and differences of the Kam expressive and the conventional adverbs 'very', 'extremely', etc. The results of this section may be presented as follows:

- **Similarity:** The Kam expressives under the lens in this section as well as the conventional degree adverbs (e.g. 'very', etc) both require continuous adjectival scales for modification.
- **Difference:** The Kam expressives and the conventional adverbs both restrict the range of qualities of the head adjective, but conventional degree adverbs modify only the most salient axis (e.g. for 'new' this axis is 'the temporal distance to the speaker'), while the expressive can modify any quality of the adjective (cf. section 3.1.1).
- **Difference:** The Kam expressives often restrict the range of arguments allowed, while conventional adverb degrees do not manifest any restriction on arguments (section 3.1.2).

3.1.1. Restrictions on the range of qualities

Consider in English the difference between

- (24) 'Peter's car is very new.'
 (25) 'Peter's car is brand-new.'

Both examples express approximately the same temporal distance from the speaker.³ Their main difference is that while 'very' provides a uni-modo modification of the axis of 'temporal distance to the speaker', 'brand-new', in addition, evokes the picture of a state where an entity has been just unpacked out of a box or, alternatively, it evokes the picture of a product which just exited the product line and on which a mark is freshly branded. (Here the nominal meaning of 'brand' has an influence). Through its capacity to relate to imaginary states, 'brand-new' shows a high degree of determinacy of the qualities of 'new' or, in other words, it restricts the range of qualities of 'new'. While 'very' only restricts the temporal distance-

³ There is perhaps a small difference in that 'brand-new' represents a slightly higher degree than 'very new' which can be appreciated by the following set of sentences: 1) 'very new' and 'brand-new' have a higher degree than 'new'. Examples: a) 'Peter's car is new, but not very new;' b) 'Peter's car is new, but not brand-new.' 2) 'Brand-new' has a slightly higher degree than 'very new'. Examples: a) 'Peter's car is very new, but not brand-new;' b) *'Peter's car is brand-new, but not very new.'

to-the-speaker axis, 'brand-' also restricts the pragmatic uses of 'new' and hence its (other) qualities.

In Kam, most of those expressives which have an adjectival head but no independent lexical meaning behave like 'brand-new'. In what follows, I present three examples where the expressive, though forbidden as an independent predicate, injects autonomous meaning into the compound.

First example. The expressive $jəp^{323}$ has no independent lexical meaning but appears after two adjectives: $k^wəŋ^{55}$ 'bright' and $məi^{453}$ 'new' where it evokes the meaning 'flash, dazzle, blink'.

- (26a) au^{31} sai^{323} $k^wəŋ^{55}$ $\underline{jəp^{323}}$ $\underline{jəp^{323}}$.
 LOC:in heart, mind bright EXPR EXPR
 'It is like a flash of inspiration in the mind.'

- (26b) $məi^{453}$ $\underline{jəp^{323}}$ $\underline{jəp^{323}}$.
 new EXPR EXPR
 'brand-new, original'

Second example. tu^{323} functions as an expressive of the adjective $təŋ^{53}$ 'dark' and has to be reduplicated. It adds the distinctive meaning 'uncanny, sinister' to the meaning of the head-adjective.

- (27) au^{31} $səm^{31}$ $təŋ^{53}$ $\underline{tu^{323}}$ $\underline{tu^{323}}$.
 LOC:in room dark EXPR EXPR
 'The darkness in this room is sinister.'

Third example. lan^{35} is the expressive of $pək^{31}$ 'white': $pək^{31}lan^{35}lan^{35}$ 'dazzling white', typically to qualify the colour of the sun, the moon or the stars. lan^{35} thus conveys the meaning of 'bright, dazzling', though it cannot articulate this meaning as a syntactic head, but only as expressive.

- (28) $nən^{55}k^hə^{35}$ u^{55} kau^{323} $pək^{31}$ $\underline{lan^{35}}$ $\underline{lan^{35}}$.
 moon LOC:on head; here: sky white EXPR EXPR
 'The moon (in the sky) is shining very brightly.'

3.1.2. Restrictions on the range of arguments

Consider again 'new' and 'brand-new' in:

- (29) 'Peter's car is brand-new.'
 (30) 'Peter's teacher is new here.'
 (31) *'Peter's teacher is brand-new here'

The issue in (29) (30) and (31) is that 'brand-new' usually requires inanimate objects, typically fabricated products, and not people as argument. The reason for this restriction lies in 'brand-' 's capacity to relate to imaginary situations as described above. Several of the Kam adjectival expressive compounds restrict the range of possible arguments: the set of arguments allowed with the head-expressive compound is *strictly* included in the set of arguments compatible with the head. Consider the following examples.

First example. The expressive tam^{53} is associated with the colour adjective man^{13} 'yellow'. The compound $\text{man}^{13}\text{tam}^{53}\text{tam}^{53}$ means 'buff' in the context of cloth. It co-occurs with textiles as arguments, while the adjective man^{13} 'yellow' is compatible with a greater set of arguments, for example also including 'tree leaves' etc.

- (32a) $\text{pa}^{53} \quad \text{m\ddot{a}i}^{31} \quad \text{man}^{13} \quad \text{kun}^{11}$.
leaf tree yellow very
 'The tree leaves are golden yellow.'

- (32b) $*?\text{pa}^{53} \quad \text{m\ddot{a}i}^{31} \quad \text{man}^{13} \quad \underline{\text{tam}^{53}} \quad \underline{\text{tam}^{53}}$
leaf tree yellow EXPR EXPR
 (*?'The tree leaves are shabby')

- (32c) $\text{m\ddot{a}i}^{31} \quad \text{uk}^{323} \quad \text{nai}^{33} \quad \text{man}^{13} \quad \underline{\text{tam}^{53}} \quad \underline{\text{tam}^{53}}$.
CL garment DEM:PROX yellow EXPR EXPR
 'This garment is buff coloured (dirty yellow).'

Second example. The expressive hep^{31} appears after the adjective ut^{13} 'warm, hot' and is then only associated with the body

temperature of people. It means that it cannot be associated with, for example, the temperature of water.

- (33a) nɛm³¹ n̩a⁵⁵ ut¹³ kuŋ¹¹.
 water river hot very
 'The river water is very hot.'

- (33b) *?nɛm³¹ n̩a⁵⁵ ut¹³ hep³¹ hep³¹
 water river hot, warm *EXPR* *EXPR*
 (*?'The river water is fever-hot')

- (33c) lak³¹un³²³ ut¹³ hep³¹ hep³¹.
 child hot, warm *EXPR* *EXPR*
 'The child has a fever.'

3.2. Manner adverbs

A certain number of Kam expressives entertain with their (verbal) head a manner relationship. Manner adverbials specify the way in which a situation happens. Most authors agree that a test for recognizing manner adverbials is to exhibit whether the construction under consideration is an adequate answer to a question with 'how' (not directly followed by an adjective like in 'how long') or 'in what way/manner'.⁴ Two criteria serve to further sub-categorize manner adverbials: scope of the adverbial and the restriction on the type of situation (e.g. action, state, etc.). Manner adverbs restrict the type of a situation in that they require the situation to be [+ dynamic] and/or [+ control].⁵ Moreover, they have a scope. The concept of manner intervenes at two levels. First it concerns the way in which the situation happens. Example: 'Peter speaks frankly.' In this sense it is sub-situational. Manner can also relate to the way of speaking. Example: 'Frankly, Peter...' In this context the adverbial is super-situational and functions as a sentence adverb or, in Dik's terminology, as a satellite of level 4 (1997).

⁴ Cf. Dik (1975: 97, 1997:230); Nilsen (1972: 92); Vester (1983: 41-42).

⁵ Cf. Dik (1975).

The Kam expressives that display manner always have parts of the sentence in their scope but not the whole sentence. They are invariably sub-situational. A quick look at the whole set of expressives (appendices 5.2. and 5.3.) shows that they all require dynamic situations with one exception. This exception concerns a group of expressives which I have classified below in the rubric 'Converbs' (section 3.2.3.2.). These are expressives with a verbal origin occurring after an adjectival head. It follows that all the manner expressives considered in this section never occur after stative verbs. We distinguish three cases with regard to the type of element included in the scope of the expressive: the controller or force of the situation (3.2.1.); the goal of the situation (3.2.2.); and the predicate (3.2.3.).

In Kam, the manner of a situation is predominantly coded by expressives, though several pre-verbal manner adverbs exist, for example the speed adverbs *hoi*⁴⁵³ 'quick' and *səi*⁴⁵³ 'slow' (cf. section 3.2.3.1.). In contrast with English and Mandarin, there is no productive morphological procedure in Kam to derive manner adverbs from adjectives, although in Tongdao/Hunan, one locality of the Kam area, the particle *ta*³³ functions as an adverbializer, probably through the (recent) influence of Mandarin or the local Chinese dialect.⁶ This particle, however, is unavailable in other Kam varieties. The puzzling wealth of expressives apparently compensates for this lack. Another difference between the Kam manner expressives and their semantic equivalents in English or Mandarin is that the expressive is compatible with only a very restricted number of heads (see introduction of this paper). This explains why for certain categories of manner (e.g. speed) there exists a great variety of expressives, each compatible with a different segment of head verbs.

⁶ In English, manner adverbs are derived from adjectives by suffixing the syllable *-ly* (e.g. 'carefully'), while in Mandarin a similar procedure is available with the particle *-de* 地 (e.g. *kuài kuài de* 快地 'quickly'). In the Kam variety of Tongdao county, Hunan province, the particle *-ta*³³ functions as an adverbializer as shown in example (2) of this paper. This particle is unavailable in other localities, especially those from which the contributors of the forthcoming dictionary originate.

3.2.1. The controller or the force is in the scope of the expressive

The expressives in this group are mainly what I call *parade* adverbs. These adverbs, mainly attached to verbs of motion, specify the quantificational configuration in which the controller performs the action or motion. These expressives may be glossed in English by 'pell-mell', 'in groups', 'disorderly', etc. Parade adverbs require collective controller or mass force noun phrases. Kam is an analytic language. Analytic languages "lack affixes" (Sapir 1921). Such languages are characterized as manifesting a "high degree of indeterminateness within the framework of nouns and verbs" (Bisang 1996: 532) or, as Bybee (1997: 28) puts it, "they lack obligatory categories". It means that in these languages a bare noun like 'table' can mean 'table' (singular) or 'tables' (plural). Most of the common nouns have a [+ individual] as well as a [+ collective] reading in isolation. Parade adverbs require common nouns that allow a [+ collective] reading (or require nouns that are [+ mass]) and impose then the [+ collective] reading. (The problem of ambiguity in the lexical coding of noun-forces where the reading is always [+ mass] does not exist.) Witness: $\text{ɬ}^{\text{au}^{35}}$ 'disorderly'. The expressive $\text{ɬ}^{\text{au}^{35}}$ appears to be postponed only after the verb $\text{p}^{\text{an}^{323}}$ 'fly'. Though $\text{t}^{\text{ɕ}^{\text{ek}^{55}}}\text{p}^{\text{it}^{323}}$ in isolation can mean 'grasshopper' (singular) and 'grasshoppers' (plural), in (34) it has the [+ collective] meaning.

- (34) $\text{t}^{\text{ɕ}^{\text{ek}^{55}}}\text{p}^{\text{it}^{323}}$ $\text{p}^{\text{an}^{323}}$ $\text{ɬ}^{\text{au}^{35}}$ $\text{ɬ}^{\text{au}^{35}}$.
grasshopper fly *EXPR* *EXPR*.
 'The grasshoppers fly in great disorder.'

$\text{h}^{\text{em}^{31}}$ 'in swarms, in droves, in groups'. Although the English gloss of this expressive hints at a wide range of compatible head verbs, there is only a closed well defined set of verbs which can be modified by $\text{h}^{\text{em}^{31}}$. This set comprises the following verbs: $\text{p}^{\text{an}^{323}}$ 'fly', $\text{p}^{\text{ai}^{55}}$ 'go', $\text{m}^{\text{a}^{35}}$ 'come', $\text{n}^{\text{ai}^{35}}$ 'move', $\text{k}^{\text{o}^{55}}$ 'laugh' and $\text{n}^{\text{e}^{323}}$ 'weep'. The argument in the examples below is always [+ collective].

- (35a) $\text{p}^{\text{an}^{323}}$ $\text{h}^{\text{em}^{31}}$ $\text{h}^{\text{em}^{31}}$ (35b) $\text{p}^{\text{ai}^{55}}$ $\text{h}^{\text{em}^{31}}$ $\text{h}^{\text{em}^{31}}$
fly *EXPR* *EXPR* *go, walk* *EXPR* *EXPR*
 'fly in swarms' 'walk in groups'

- (35c) ma^{35} $\text{h\ddot{e}m}^{31}$ $\text{h\ddot{e}m}^{31}$
 come *EXPR* *EXPR*
 'come in groups'

hu^{31} 'one after another, in a line'. This expressive is similar to the preceding $\text{h\ddot{e}m}^{31}$ with regards to the choice of head verbs but is not compatible with ko^{55} 'laugh', or ne^{323} 'weep'. It mainly modifies one of the following verbs: $\text{p\ddot{a}n}^{323}$ 'fly', $\text{p\ddot{a}i}^{55}$ 'go', ma^{35} 'come', or $\text{n\ddot{a}i}^{35}$ 'move'.

- (36a) $\text{p\ddot{a}n}^{323}$ $\text{h\ddot{u}}^{31}$ $\text{h\ddot{u}}^{31}$ (36b) $\text{p\ddot{a}i}^{55}$ $\text{h\ddot{u}}^{31}$ $\text{h\ddot{u}}^{31}$
 fly *EXPR* *EXPR* *go, walk* *EXPR* *EXPR*
 'fly in formation' 'walk in a line'

- (36c) ma^{35} $\text{h\ddot{u}}^{31}$ $\text{h\ddot{u}}^{31}$
 come *EXPR* *EXPR*
 'come one after the other'

$\text{p\ddot{a}n}^{55}$ 'pell-mell, hastily and disorderly'. The expressive $\text{p\ddot{a}n}^{55}$ can be postponed after precisely two head-verbs: $\text{l\ddot{e}ŋ}^{33}$ 'flee, escape' and $\text{s\ddot{a}n}^{453}$ 'disperse'.

- (37a) $\text{l\ddot{e}ŋ}^{33}$ $\text{p\ddot{a}n}^{55}$ $\text{p\ddot{a}n}^{55}$ (37b) $\text{s\ddot{a}n}^{453}$ $\text{p\ddot{a}n}^{55}$ $\text{p\ddot{a}n}^{55}$
 flee *EXPR* *EXPR* *disperse* *EXPR* *EXPR*
 'flee pell-mell' 'disperse hastily'

$\text{k}^{\text{h}}\text{e}^{453}$ 'continuously'. The expressive $\text{k}^{\text{h}}\text{e}^{453}$ appears to be restricted mainly to the context of weather phenomenon like 'continuously raining'.

- (38) $\text{t}^{\text{h}}\text{əu}^{453}$ $\text{l}^{\text{j}}\text{ok}^{31}$ $\text{ŋ}^{\text{w}}\text{ət}^{31}$ ɕu^{323} tok^{55} $\text{p}^{\text{j}}\text{ən}^{55}$
 arrive *NUM:6* *month* *then* *fall* *rain*
 $\text{k}^{\text{h}}\text{e}^{453}$ $\text{k}^{\text{h}}\text{e}^{453}$ $\text{t\ddot{a}}^{33}$
 EXPR *EXPR* *DEM:DIST*
 'Once we get into June it is raining continuously.'

$k^{hw}\eta^{453}$ 'one after the other, in a line'. The expressive $k^{hw}\eta^{453}$ appears after a wider range of verbs of motion and has to be reduplicated.

- (39) $n\grave{a}n^{11}$ $l\grave{a}t^{35}$ pai^{55} $\frac{k^{hw}\eta^{453}}{EXPR}$ $\frac{k^{hw}\eta^{453}}{EXPR}$.
people QUANT:all go EXPR EXPR
 'All the people went one after the other.'

3.2.2. The goal is in the scope of the expressive

This type concerns the case where the expressive describes the manner of how the goal is affected by the situation. A small number of expressives fall into this category. Consider:

$ka\eta^{33}$ 'fully, abundantly, successfully'. $ka\eta^{33}$ can co-occur with several [+ dynamic, -control] verbs like 'grow', 'become', etc, indicating that the situation in force is more than expected in quantity or degree. It has to be reduplicated and appear in the postposition of the verb. (The noun phrase $m^j\acute{e}k^{323}$ 'lady' in 40b is technically speaking not a goal, though it occurs in the same syntactic slot where goals of the verb we^{31} normally occur).

- (40a) k^{we55} tu^{55} $m^j\acute{u}^{11}$ $\frac{ka\eta^{33}}{EXPR}$ $\frac{ka\eta^{33}}{EXPR}$.
melon grow sprouts EXPR EXPR
 'The melon grows sprouts abundantly.'

- (40b) we^{31} $m^j\acute{e}k^{323}$ $\frac{ka\eta^{33}}{EXPR}$ $\frac{ka\eta^{33}}{EXPR}$
do, become lady EXPR EXPR
 'fully become a young woman.'

This expressive has to be distinguished from resultative versatile which form a small and closed class in Kam (see Gerner, 2002). Resultative versatile are derived from verbs. They present the situation together with its result. The resultative versatile in Kam include the following: $t^h\acute{a}u^{453}$ 'arrive'; $t\grave{a}m^{55}$ 'meet'; $l\acute{r}^{323}$ 'get' and lai^{55} 'well, ready' (the only adjective). Witness:

- (41a) ka^{323} $t^həu^{453}$ (41b) $səm^{33}$ $təm^{55}$
 wait ARRIVE search MEET
 'wait successfully' 'find'
- (41c) to^{323} li^{323} pa^{55}
 put; catch GET fish
 'succeed in catching a fish'

The difference between the resultative versatiles and the above expressive is that the versatiles describe achieved resultative states, whereas the expressive in (40a) and (40b) does not. The situations described in (40a) and (40b) are ongoing. Abundance denotes the manner and not the result. A further formal difference is that the resultative versatiles cannot be reduplicated, while $kaŋ^{33}$ in (40a) and (40b) has to be. Consider other expressives of this type:

$təm^{53}$ 'fixedly, firmly, inflexibly'. $təm^{53}$ occurs in two kinds of situations, i.e. with two [- dynamic, + control] verbs: $təi^{11}$ 'take, hold' and $tən^{11}$ 'stand'. This expressive indicates the fixed and invariable manner of holding a position. It has to be reduplicated.

- (42a) mau^{33} $təi^{11}$ p^ja^{55} au^{31} m^ja^{11} $təm^{53}$ $təm^{53}$.
 3P SG hold stone LOC:in hand EXPR EXPR
 'He/she holds the stone very firmly.'
- (42b) $tən^{11}$ $təm^{53}$ $təm^{53}$
 stand EXPR EXPR
 'stand very firmly'

lop^{323} 'conspicuously'. lop^{323} can only appear after the verb tu^{55} 'put out' and has to be reduplicated.

- (43) tu^{11} sui^{11} $təa^{33}$ tu^{55} kau^{323} lop^{323} lop^{323} .
 CL snake DEM:DIST put out head EXPR EXPR
 'The snake puts out its head conspicuously.'

nat^{31} 'irregularly'. nat^{31} is the (unique) expressive of the verb tut^{13} 'scratch' and is used for qualifying the disorderly scratching of one's head.

- (44) $\text{ɬ}^{\text{h}}\text{ut}^{13}$ kau^{323} $\underline{\text{n}^{\text{a}}\text{t}^{31}}$ $\underline{\text{n}^{\text{a}}\text{t}^{31}}$.
 scratch head *EXPR* *EXPR*
 'Scratch one's head in an irregular fashion, ruffle one's hair'

n^{a}^{33} 'blankly, barely'. n^{a}^{33} is goal-orientated and expresses after the verb it^{31} 'bite' that the goal is being left bare or gnawed off.

- (45) mau^{33} $\text{p}^{\text{ə}}\text{n}^{323}$ it^{31} kau^{323} $\text{p}^{\text{j}}\text{ət}^{55}$ $\underline{\text{n}^{\text{a}}^{33}}$ $\underline{\text{n}^{\text{a}}^{33}}$.
 3P SG *always* *bite* *head* *pen* *EXPR* *EXPR*
 'He always chews off the end of the pen.'

3.2.3. The predicate is in the scope of the expressive

There are three categories of expressives with the head predicate in their scope: speed adverbs (section 3.2.3.1), 'converbs' (where the expressive is derived from a verb, section 3.2.3.2) and a residual category of various heterogeneous expressives (section 3.2.3.3.).

3.2.3.1. Speed adverbs

Speed is classified by Dik (1997: 231) as a notion different from manner. However, 'quickly' and 'slowly' are adequate answers to *how*-questions. They qualify therefore for manner adverbs. In Kam there are several expressives conveying the idea of speed. They have to be distinguished from the two rather widespread standard speed adverbs hoi^{453} 'quick' and səi^{453} 'slow'. Both are in use with a wide range of [+ dynamic] verbs and appear in the prefield of the predicate. The speed expressives considered in this section, on the other hand, must appear in the postfield of the verb and the set of compatible head-verbs is reduced to a few members. The speed expressives are presented as follows:

$\text{k}^{\text{w}}\text{at}^{31}$ 'quickly'. $\text{k}^{\text{w}}\text{at}^{31}$ is a speed adverb and can be involved with a restricted number of heterogeneous verbs like sui^{53} 'sit down', suk^{31} 'bind up', and tət^{55} 'cut'. It can occur in the simple and the reduplicated form.

- (46a) sui^{53} $\frac{\text{k}^{\text{wat}^{31}}}{\text{EXPR}}$ $\frac{\text{k}^{\text{wat}^{31}}}{\text{EXPR}}$ (46b) suk^{31} $\frac{\text{k}^{\text{wat}^{31}}}{\text{EXPR}}$ $\frac{\text{k}^{\text{wat}^{31}}}{\text{EXPR}}$
 sit *bind up*
 'sit down quickly' 'bind up quickly'

cat^{13} 'quickly, suddenly'. This expressive is compatible with a wider range of verb-heads: with verbs of affect like pek^{31} 'strike', or $\text{p}^{\text{jek}^{55}}$ 'whip'; with verbs of production like ca^{323} 'write', or $\text{p}^{\text{ja}^{55}}$ 'weave' or with verbs of motion like $\text{t}^{\text{can}^{11}}$ 'rise' or $\text{j}^{\text{an}^{55}}$ 'raise'.

- (47a) pek^{31} $\frac{\text{cat}^{13}}{\text{EXPR}}$ $\frac{\text{cat}^{13}}{\text{EXPR}}$ (47b) ca^{323} $\frac{\text{cat}^{13}}{\text{EXPR}}$ $\frac{\text{cat}^{13}}{\text{EXPR}}$
 strike *write*
 'strike quickly/suddenly' 'write quickly'
- (47c) $\text{t}^{\text{can}^{11}}$ $\frac{\text{cat}^{13}}{\text{EXPR}}$ $\frac{\text{cat}^{13}}{\text{EXPR}}$
 rise
 'rise quickly'

$\text{t}^{\text{ap}^{55}}$ 'slowly'. $\text{t}^{\text{ap}^{55}}$ is a speed adverb and is restricted to a small but rather heterogeneous set of verbs. These verbs include $\text{t}^{\text{an}^{55}}$ / $\text{t}^{\text{i}^{55}}$ 'eat, drink', we^{31} 'do, make' and pu^{55} 'pick up'. The expressive $\text{t}^{\text{ap}^{55}}$ has to appear in its reduplicated form.

- (48a) mau^{33} nau^{33} ta^{33} pu^{55} $\text{t}^{\text{am}^{33}}$ $\frac{\text{t}^{\text{ap}^{55}}}{\text{EXPR}}$ $\frac{\text{t}^{\text{ap}^{55}}}{\text{EXPR}}$.
 3P SG *LOC:be at* *LOC PRO:there* *pick up fruit*
 'He/she picks up the fruit there slowly.'
- (48b) $\text{t}^{\text{an}^{55}}$ $\frac{\text{t}^{\text{ap}^{55}}}{\text{EXPR}}$ $\frac{\text{t}^{\text{ap}^{55}}}{\text{EXPR}}$
 eat
 'eat slowly'

$\text{t}^{\text{at}^{323}}$ 'quickly'. $\text{t}^{\text{at}^{323}}$ is a speed adverb and is only compatible with $\text{t}^{\text{ui}^{53}}$ 'pinch'. The expressive $\text{t}^{\text{at}^{323}}$ has to appear in its reduplicated form.

- (49) lak³¹un³²³ mia¹¹ tui⁵³ na³²³ tət³²³ tət³²³.
 child hand pinch face *EXPR* *EXPR*
 'The child very quickly pinches [his/her counterpart's] face.'

lje⁴⁵³ 'abruptly'. lje⁴⁵³ only appears after the verb ɕon⁵³ 'turn, return' and means that the movement is sudden. It has to appear in its reduplicated form.

- (50) mau³³ ɕon⁵³ lje⁴⁵³ lje⁴⁵³.
 3P SG turn *EXPR* *EXPR*
 'He turned around abruptly.'

3.2.3.2. 'Converbs'

The simple quotation marks used in the title indicate that the phenomenon recognized here is different from the concept of converb studied extensively in inflectional languages. The converb, sometimes called verbal adverb, gerund or adverbial participle, is defined by Haspelmath (1995) by the following four criteria observed cross-linguistically in an array of (inflectional and agglutinative) languages:

- (i) Verb origin: A converb is a verb form of the inflectional paradigm of the verb.
- (ii) Indefiniteness: A converb lacks specifications for tense, aspect or mood.
- (iii) Adverbial: A converb is an adverbial construction.
- (iv) Subordination: A converb is subordinated to or embedded in a head predicate.

In Kam, a set of expressives is derived from verbs and associated to an adjectival or verbal head. The adjective-expressive compound is never used as an adnominal modifier but always as the predicate of the sentence. The expressives contemplated in this section are thus adverbial (criterion iii). They are subordinated in meaning and form. (They occur outside the basic predication frame: SVO+EXPR, cf. criterion iv). Furthermore, expressives never

incorporate specifications for tense, aspect or mood, which, anyway, are optional grammatical categories in analytic languages (cf. criterion ii). Of course, the criterion (i) is problematic for analytic languages which lack an inflectional morphology. However, the morpho-syntactic property of expressives is to be reduplicated and to occur in the postfield of their head to which they are subordinated. It means that the verbal expressives would fit in a trimmed version of criterion (i). The really problematic issue in associating verbal expressives with converbs, however, is that while in converb languages almost every verb can function as converb, in Kam the set of verbs allowed to occur as the expressive of a head is fairly small. Most mainstream verbs are not allowed to function as expressives (converbs). Keeping this fact in mind, we may now cautiously proceed with the Kam 'converbs'.

A. With adjectival head

In this category, the head is an adjective and the expressive is derived from a verb. It is more convenient to view the state coded by the adjective as being interwoven with the activity hinted at by the verbal expressive, rather than to interpret the state as the result of the activity. Consider the following pairs of examples. (The 'a' version illustrates the expressive as a plain verb, and the 'b' version its involvement as expressive.)

- ɬap¹¹ 'press'.

- (51a) au⁵⁵ p^ja⁵⁵ ɬap¹¹ u⁵⁵ ɬa³³.
 take stone press LOC: on LOC PRO: there
 'Take a stone and press on there.'

- (51b) pa⁵⁵ ɬap¹¹ ɬap¹¹
 sticky EXPR EXPR
 'sticky while/through pressing'

- taŋ⁵⁵ 'grow, develop'.

- (52a) wa³⁵ lai⁵⁵ taŋ⁵⁵ to³²³ kau³²³ p¹a⁵⁵toŋ³³, kən¹¹
 flower good grow DUR head cliff person
 lai⁵⁵ taŋ⁵⁵ to³²³ tɕiu³²³sən⁵⁵ ɕau³⁵.
 good dwell DUR village 2P PL
 'Just as nice flowers grow up on [inaccessible] cliffs, you
 have nice people here in your [remote] village.' (North
 Kam picturesque courtesy statement.)

- (52b) tən⁵³ taŋ⁵⁵ taŋ⁵⁵
 bent, curled EXPR EXPR
 'very curly (e.g. hair, the dog's tail)'

- k^wat⁵⁵ 'coil, twist'.

- (53a) an³²³na³¹ ta³³ k^wat⁵⁵ oi⁵⁵ min¹¹.
 axle of loom DEM:DIST coil, twist much cotton
 'The axle of the loom can twist a lot of cotton.'

- (53b) tən³²³ k^wat⁵⁵ k^wat⁵⁵
 tight EXPR EXPR
 'coiled tight'

- naŋ⁵³ 'look upward'.

- (54a) ja¹¹ ta⁵⁵ naŋ⁵³ mən⁵⁵p^haŋ³⁵
 NUM:2 eyes look upward sky, universe
 'Both eyes peer into the sky.'

- (54b) p^haŋ³⁵ naŋ⁵³ naŋ⁵³
 tall EXPR EXPR
 'tall and upright'

- jeu³⁵ 'wave'.

- (55a) ləm¹¹ jeu³⁵ pa⁵³ mɛi³¹.
 wave wave 1 1

- (55b) tau⁵⁵ jeu³⁵ jeu³⁵
 fragile *EXPR* *EXPR*
 'fragile through waving [to and fro]'

B. With verbal head

I could only find three or four verbal expressives occurring after verbal predicates. These verbal expressives denote activities semantically correlated to the activity of the head. Consider:

- p^jat³²³ 'flog'.

- (56a) p^jat³²³ mau³³ i⁵⁵ net⁵⁵.
 flog *3P SG* *NUM:1* *VERB CL*
 'Give him/her a flogging'

- (56b) heu³⁵ p^jat³²³ p^jat³²³
 beat *EXPR* *EXPR*
 'beat repeatedly'

- sat³²³ 'strike'.

- (57a) lak³¹um¹³ tou³³ nən¹¹lao³¹ sat³²³ i⁵⁵ cu³²³.
 child *by* *adult* *strike* *NUM:1* *VERB CL: bamboo rod*
 'The child was beaten by the adult with a bamboo rod.'

- (57b) p^jek⁵⁵ sat³²³ sat³²³
 whip *EXPR* *EXPR*
 'whip repeatedly'

- nin⁵⁵ 'grimacing'.

- (58a) let¹¹ ne¹¹ we³¹ nin⁵⁵
 open, draw *teeth* *do, appear as* *grimacing*
 'open one's mouth and grimace'

- (58b) ko⁵⁵ nin⁵⁵ nin⁵⁵
 laugh, smile *EXPR* *EXPR*
 'laugh and make a face'

3.2.3.3. Other adverbs

In this last category fall various heterogenous expressive manner adverbs. As remarked before, Kam does not derive the manner adverbs from adjectives as is the case in English with the suffix *-ly* or even in Mandarin with the suffix *-de* 地. One major channel for Kam to express manner is via the system of expressives. Consider the following incomplete list:

tom^{55} 'aggressively, rudely, fiercely'. tom^{55} modifies the predicate and is only compatible with the verb ci^{53} 'point at' in the postposition of which it has to be reduplicated.

- (59) mau^{33} ci^{53} e^{35} tom^{55} tom^{55} .
 3P SG point at other people EXPR EXPR
 'He points rudely at other people.'

$\text{t}^{\text{h}}\text{at}^{35}$ 'with jumps'. The expressive $\text{t}^{\text{h}}\text{at}^{35}$ can occur in the postposition of a couple of verbs of motion like $\text{p}^{\text{j}}\text{iu}^{55}$ 'jump', $\text{t}^{\text{h}}\text{am}^{13}$ 'walk', etc and can then be reduplicated. In addition, it is allowed to occur in its simple version in front of an array of verbs of motion but it may never function as verbal head. In both positions it has a regular semantic input indicating that the motion is carried out with continuous jumps.

- (60) pi^{31} nu^{53} mau^{33} nən^{11} lau^{31} , $\text{t}^{\text{h}}\text{am}^{13}$ $\text{k}^{\text{hw}}\text{ən}^{35}$
 NEG IMP look 3P SG person old walk road
 $\text{t}^{\text{h}}\text{at}^{35}$ $\text{t}^{\text{h}}\text{at}^{35}$ hoi^{453} kuŋ^{11} .
 EXPR EXPR quick much
 'Don't think he/she is old, he/she can still hop along quickly.'

tən^{323} 'in zig-zags, staggering'. This expressive is used in its reduplicated version after walk-related verbs. It then conveys the stable meaning of 'staggering'.

- (61) təi^{55} $\text{k}^{\text{hw}}\text{au}^{13}$ $\text{t}^{\text{h}}\text{am}^{13}$ $\text{k}^{\text{hw}}\text{ən}^{35}$ tən^{323} tən^{323} .
 dead wine walk road EXPR EXPR
 'One staggers if one is drunk.'

lət⁵⁵ 'straight'. lət⁵⁵ is reduplicated and appears after verbs of motion like pai⁵⁵ 'go' or p'ieu⁵³ 'run'. It expresses the straight form of a movement.

- (62) mau³³ pai⁵⁵ lət⁵⁵ lət⁵⁵ kau³²³ me¹¹ ɕon⁵³.
 3P SG go *EXPR* *EXPR* head, end NEG return
 'He goes straight to the finish and does not turn back.'

mun⁵³ 'eloquently'. mun⁵³ is only compatible with aŋ³²³ 'speak' and is reduplicated in its postfield.

- (63) əp⁵⁵ aŋ³²³ mun⁵³ mun⁵³ əi³²³ wo³¹ sa⁵³.
 mouth speak *EXPR* *EXPR* NEG know stop
 'Talk on and on without interruption in a flow of eloquence.'

nok³⁵ 'very busily'. nok³⁵ is typically involved with a couple of verbs of production like ɕa³²³ 'write' or we³¹ 'do, work', etc. It expresses a manner of complete mental absorption in the activity. The expressive nok³⁵ has to be reduplicated.

- (64) mau³³ ɕa³²³ a⁵⁵ nok³⁵ nok³⁵.
 3P SG write song *EXPR* *EXPR*
 'He/she is immersed in writing songs.'

4. CONCLUSION

The problem of the arbitrariness of the linguistic sign, which by no means only belongs to an older era of linguistics, is examined in this paper on a limited but morpho-syntactically well defined segment of the lexicon of Kam, an Austro-Tai language from South-West China. A great portion of this segment manifests various semiotic relationships between the two faces of the sign that are subsumed in the literature of semiotics under the labels of index, icon, symbol and name. The relatively high occurrence of motivated, non-arbitrary signs in Kam, in contrast to the low

number of comparable phenomena in the lexicon of Western languages, raises the question of the fundamental structural language features favoring the emergence of motivated signs. The speculation I offer here is related to the features of analyticity vs. inflectionality. Languages of the analytic morphological type (mainly Sino-Tibetan and Kadai) display a high degree of indeterminacy in the domain of the noun and the verb (cf. Bisang 1996: 532, Bybee 1997: 28; see also related remarks in section 3.2.1 of this paper), while languages with an inflectional morphology, including Indo-European, have to be very explicit in the grammatical marking of categories in the domain of the noun and the verb. Inflectional languages show a high degree of determinateness for various grammatical categories. My suggestion is that because of their lack of morphology, analytic languages are driven to compensate their indeterminacy by increasing information directly in the linguistic sign. It does not mean that grammatical meanings like plurality or verbal aspect are directly expressed in the linguistic sign. The idea is rather that there is an inbuilt force which counter-balances the under-coding of one set of values by the over-coding of another set of values.

5. APPENDICES

In the following sub-sections I give lists of noun-expressive compounds (5.1.), adjective-expressive compounds (5.2.) and verb-expressive compounds (5.3.). While perhaps not every single expressive of the forthcoming dictionary is present in these lists, they constitute, however, a fairly representative sample. The two rightmost columns contain specified information about the possibility/necessity of the expressive in question to reduplicate and information about its dialect affiliation: ① means 'Northern dialect' and ② 'Southern dialect' (cf. Long and Zheng 1998). An expressive without (lexical) meaning is noted by '---', while /onom./ means 'onomatopoeic' and /interj./ 'interjection'.

5.1. List of Kam noun-expressive compounds

It is important to note that the noun-expressive compound functions syntactically as a predicate and not as an argument.

<i>Kam noun</i>	<i>Kam expressive</i>	<i>Modified Kam noun</i>	<i>Red.</i>	<i>Dialect</i>
$k^w en^{11}$ 'smoke'	$pu\eta^{33}$ 'grey'	$k^w en^{11} pu\eta^{33} pu\eta^{33}$ 'full of grey smoke'	must	Ⓝ Ⓢ
	$(\eta)ui^{323}$ '---'	$k^w en^{11} (\eta)ui^{323} (\eta)ui^{323}$ 'smoke-filled'	must	Ⓝ Ⓢ
pui^{55} 'fire'	$h\acute{a}p^{31}$ '---'	$pui^{55} h\acute{a}p^{31} h\acute{a}p^{31}$ 'widespread-fire'	can	Ⓝ Ⓢ
lap^{323} 'lightning'	jap^{31} '---'	$lap^{323} jap^{31} jap^{31}$ 'lightning-flashing'	must	Ⓝ Ⓢ
na^{323} 'face'	$m^j au^{323}$ '---'	$na^{323} m^j au^{323} m^j au^{323}$ 'of bruised face'	must	Ⓝ Ⓢ
ta^{55} 'eye'	jap^{11} '---'	$ta^{55} jap^{11} jap^{11}$ 'with blinking eyes'	must	Ⓝ Ⓢ
$n\acute{e}m^{31} ta^{55}$ 'tear'	$k^{hw} eu^{453}$ '---'	$n\acute{e}m^{31} ta^{55} k^{hw} eu^{453} k^{hw} eu^{453}$ 'tear-drenched'	must	Ⓝ Ⓢ
	$p^{hj} o\eta^{35}$ '---'	$n\acute{e}m^{31} ta^{55} p^{hj} o\eta^{35} p^{hj} o\eta^{35}$ 'tearful'	must	Ⓢ
pa^{53} 'leaf'	$n\acute{e}m^{33}$ '---'	$pa^{53} n\acute{e}m^{33} n\acute{e}m^{33}$ 'leafy'	must	Ⓢ
wa^{35} 'flower'	$n\acute{e}m^{33}$ '---'	$wa^{35} n\acute{e}m^{33} n\acute{e}m^{33}$ 'in full bloom'	must	Ⓢ
$n\acute{e}m^{31}$ 'water'	$\eta^w an^{31}$ '---'	$n\acute{e}m^{31} \eta^w an^{31} \eta^w an^{31}$ 'turbulent' (water)	must	Ⓢ
	$wa\eta^{323}$ 'pond'	$n\acute{e}m^{31} wa\eta^{323} wa\eta^{323}$ 'with a thin film of water'	must	Ⓝ
$n\acute{e}m^{31} nan^{33}$ 'waterfall'	$j\acute{e}m^{53}$ /onom./	$n\acute{e}m^{31} nan^{33} j\acute{e}m^{53} j\acute{e}m^{53}$ 'a roaring waterfall'	must	Ⓢ
$la\eta^{33}$ 'wave'	$p\acute{a}i^{55}$ '---'	$la\eta^{33} p\acute{a}i^{55} p\acute{a}i^{55}$ 'with mountainous waves'	must	Ⓢ

5.2. List of Kam adjective-expressive compounds ordered by semantic classes

A. Physical property

<i>Kam adjective</i>	<i>Kam expressive</i>	<i>Modified Kam adjective</i>	<i>Red.</i>	<i>Dialect</i>
<i>1) Substance & structure</i>				
pa ⁵⁵ 'sticky'	tap ¹¹ 'press'	pa ⁵⁵ tap ¹¹ tap ¹¹ 'sticky by pressing' (rice cake)	can	Ⓝ
to ³²³ 'sticky'	nui ¹¹ 'rub'	to ³²³ nui ¹¹ nui ¹¹ 'sticky and thin'	must	Ⓝ Ⓢ
	tet ⁵⁵ '---'	to ³²³ tet ⁵⁵ tet ⁵⁵ 'very sticky, strongly glutinous'	can	Ⓝ Ⓢ
an ¹¹ 'messy'	iu ³¹ /interj./	an ¹¹ iu ³¹ iu ³¹ 'really/ completely messy'	can	Ⓢ
nan ³⁵ 'itchy'	ni ¹³ '---'	nan ³⁵ ni ¹³ ni ¹³ 'very itchy'	can	Ⓢ
pin ³²³ 'tidy'	kəp ³²³ '---'	pin ³²³ kəp ³²³ kəp ³²³ 'clean and in order'	can	Ⓢ
kən ³¹ 'in order'	kət ⁵⁵ '---'	kən ³¹ kət ⁵⁵ kət ⁵⁵ 'in correct order'	can	Ⓢ
ɕeŋ ¹³ 'clean'	kəp ³²³ '---'	ɕeŋ ¹³ kəp ³²³ kəp ³²³ 'very clean'	can	Ⓢ
wa ⁵³ 'dirty'	m ^j au ⁴⁵³ '---'	wa ⁵³ m ^j au ⁴⁵³ m ^j au ⁴⁵³ 'very dirty'	must	Ⓝ Ⓢ
et ⁵⁵ 'dense'	eu ⁵⁵ '---'	et ⁵⁵ eu ⁵⁵ eu ⁵⁵ 'overcrowded (density of a crowd)'	can	Ⓢ
nən ⁵⁵ 'foul'	koŋ ³¹ '---'	nən ⁵⁵ koŋ ³¹ koŋ ³¹ 'rotten' (e.g. eggs)	must	Ⓝ
ta ³³ 'hard, stiff'	pit ³³ '---'	ta ³³ pit ³³ pit ³³ 'rigid'	must	Ⓝ
k ^w a ³²³ 'hard'	təŋ ³²³ '---'	k ^w a ³²³ təŋ ³²³ təŋ ³²³ 'extremely hard'	can	Ⓢ
	ku ⁵⁵ '---'	k ^w a ³²³ ku ⁵⁵ ku ⁵⁵ 'very hard'	can	Ⓢ
	k ^w at ⁵⁵ 'coil'	k ^w a ³²³ k ^w at ⁵⁵ k ^w at ⁵⁵ 'tightly hard'	can	Ⓢ
so ³⁵ 'thick, coarse'	sai ¹³ '---'	so ³⁵ sai ¹³ sai ¹³ 'very big, thick' (e.g. yarn, grain)	must	Ⓢ
	jok ³²³ '---'	so ³⁵ jok ³²³ jok ³²³ 'very coarse, rough' (e.g. cloth)	can	Ⓢ
to ⁵³ 'tough'	tet ⁵⁵ '---'	to ⁵³ tet ⁵⁵ tet ⁵⁵ 'very tough' (e.g. wood)	must	Ⓝ Ⓢ
	niŋ ³⁵ '---'	to ⁵³ niŋ ³⁵ niŋ ³⁵ 'very tough' (e.g. root)	must	Ⓝ

k ^w an ⁵³ 'stiff'	k ^w ən ³²³ '---'	k ^w an ⁵³ k ^w ən ³²³ k ^w ən ³²³	can	Ⓝ Ⓢ
weŋ ⁵³	wet ⁵⁵ '---'	'very stiff' (clothes) weŋ ⁵³ wet ⁵⁵ wet ⁵⁵	must	Ⓢ
'powdery'	məm ³³ '---'	'powdery; watery'		
ma ³²³	məp ¹³ '---'	ma ³²³ məm ³³ məm ³³	can	Ⓝ Ⓢ
'soft, supple'	mop ¹¹ '---'	'mushy' (used for food) ma ³²³ məp ¹³ məp ¹³	can	Ⓢ
	naŋ ⁴⁵³ '---'	'very soft'		
	na ³¹ 'reel'	ma ³²³ mop ¹¹ mop ¹¹	can	Ⓝ Ⓢ
	m ^j ep ³²³ '---'	'soft and loose'		
tik ³²³ 'full'	l ^j om ⁵⁵ '---'	ma ³²³ naŋ ⁴⁵³ naŋ ⁴⁵³	can	Ⓝ
suŋ ³³ 'full'	mi ⁵⁵ /l ^j i ⁵⁵ '---'	'fatigued and weak'		
maŋ ⁵⁵	ki ⁵⁵ '---'	ma ³²³ na ³¹ na ³¹ 'supple,	can	Ⓢ
'thin, rare'	k ^w et ⁵⁵ 'coil'	flexible; weak, feeble'		
	k ^w ən ⁵³ '---'	ma ³²³ m ^j ep ³²³ m ^j ep ³²³	can	Ⓢ
	iu ⁵⁵ '---'	'overflowing'		
ɬən ³²³ 'tight'	k ^w et ³¹ '---'	suŋ ³³ l ^j om ⁵⁵ l ^j om ⁵⁵	must	Ⓢ
	jəm ⁴⁵³ '---'	'packed'		
	nap ⁵⁵ '---'	maŋ ⁵⁵ mi ⁵⁵ mi ⁵⁵ /l ^j i ⁵⁵ l ^j i ⁵⁵	can	Ⓢ
	ep ³¹ '---'	'extremely thin, flimsy'		
si ⁴⁵³	jau ¹³ '---'	maŋ ⁵⁵ ki ⁵⁵ ki ⁵⁵	must	Ⓝ
'fragmentary'	jeu ¹³ 'float'	'extremely thin'		
o ³³ 'leaking'		ɬən ³²³ k ^w et ⁵⁵ k ^w et ⁵⁵	can	Ⓢ
ɬau ⁵⁵ 'fragile'		'very tight'		
		ɬən ³²³ k ^w ən ⁵³ k ^w ən ⁵³	can	Ⓢ
		'extremely tight'		
		ɬən ³²³ iu ⁵⁵ iu ⁵⁵	can	Ⓝ
		'taut' (e.g. drum skin)		
		nəm ³³ k ^w et ³¹ k ^w et ³¹	can	Ⓢ
		'very damp'		
		jək ⁵⁵ k ^w et ³¹ k ^w et ³¹	can	Ⓢ
		'very wet'		
		jək ⁵⁵ jəm ⁴⁵³ jəm ⁴⁵³	can	Ⓝ Ⓢ
		'drenched'		
		si ⁴⁵³ nap ⁵⁵ nap ⁵⁵	can	Ⓢ
		'shattered'		
		o ³³ ep ³¹ ep ³¹	can	Ⓢ
		'leaking everywhere'		
		ɬau ⁵⁵ jau ¹³ jau ¹³	must	Ⓝ
		'crispy' (food)		
		ɬau ⁵⁵ jeu ¹³ jeu ¹³	must	Ⓝ
		'brittle' (dried noodles)		

3) *Form & shape*

a ²² 'dull'	ən ³¹ '---'	a ²² ən ³¹ ən ³¹	can	Ⓝ
		'blunt' (e.g. knife)		
	it ¹³ '---'	a ²² it ¹³ it ¹³ 'blunt' (e.g. knife)	can	Ⓝ
pan ³³ 'askew'	wut ²²	pan ³³ wut ²² wut ²² 'unbalanced' (by sudden reversal)	can	Ⓝ
	'suddenly'			
ta ²² 'pointed'	tu ³¹ '---'	ta ²² tu ³¹ tu ³¹	must	Ⓝ
		conical, coniform, tapered'		
siu ⁵³ 'sharp'	sip ⁵⁵ '---'	siu ⁵³ sip ⁵⁵ sip ⁵⁵ 'very sharp'	must	Ⓢ
ɕo ⁴⁵³ 'pointed, sharp'	ɕaŋ ⁵⁵ '---'	ɕo ⁴⁵³ ɕaŋ ⁵⁵ ɕaŋ ⁵⁵	can	Ⓢ
		'razor-sharp'		
pi ²² 'fat'	pət ³¹ '---'	pi ²² pət ³¹ pət ³¹	can	Ⓝ
		'corpulent, obese'		
pui ¹¹ 'fat'	pəp ³¹ '---'	pui ¹¹ pəp ³¹ pəp ³¹	can	Ⓢ
		'tubby, chubby' (for humans)		
	pəm ³³ '---'	pui ¹¹ pəm ³³ pəm ³³	can	Ⓢ
		'corpulent, full-bodied'		
na ⁵⁵ 'thick'	nok ⁵⁵ 'again'	na ⁵⁵ nok ⁵⁵ nok ⁵⁵	can	Ⓝ Ⓢ
		'thick' (for textiles)		
pu ⁵⁵ 'swollen'	pəp ⁵⁵ '---'	pu ⁵⁵ pəp ⁵⁵ pəp ⁵⁵	can	Ⓢ
		'tautly swollen'		
peŋ ³³ 'bloated'	pot ³¹ '---'	peŋ ³³ pot ³¹ pot ³¹ 'distended'	can	Ⓢ
ɕeŋ ⁵³ 'bloated'	teŋ ⁵⁵ '---'	ɕeŋ ⁵⁵ teŋ ⁵⁵ teŋ ⁵⁵ 'engorged' (after overeating)	can	Ⓢ
ton ¹¹ 'round'	jon ³³ 'barrel'	ton ¹¹ jon ³³ jon ³³ 'rotund'	must	Ⓝ Ⓢ
si ⁴⁵³	səp ⁵⁵ '---'	si ⁴⁵³ səp ⁵⁵ səp ⁵⁵	must	Ⓢ
'thin, fine'		'very fine, very subtle'		
ɕiu ³²³	tət ⁵⁵ '---'	ɕiu ³²³ tət ⁵⁵ tət ⁵⁵ 'of shrivelled or bony appearance'	can	Ⓝ Ⓢ
'thin, lean'				
	ɕiu ¹¹ 'withered'	ɕiu ³²³ ɕiu ¹¹ ɕiu ¹¹ 'emaciated'	must	Ⓝ Ⓢ
ɕun ⁵³ 'curled'	taŋ ⁵⁵ 'dwell'	ɕun ⁵³ taŋ ⁵⁵ taŋ ⁵⁵ 'curly' (e.g. hair, the dog's tail)	must	Ⓝ Ⓢ
eu ⁵⁵ 'crooked'	i ⁵⁵ '---'	eu ⁵⁵ i ⁵⁵ i ⁵⁵ 'very crooked'	can	Ⓢ
ɕoŋ ⁵³ 'curved'	tət ⁵⁵ '---'	ɕoŋ ⁵³ tət ⁵⁵ tət ⁵⁵	can	Ⓢ
		'strongly curved'		
m/p ^h et ³⁵	nap ³¹ '---'	mət ³⁵ /p ^h et ³⁵ nap ³¹ nap ³¹	must	Ⓢ
'curved down'		'weighed down'		
səŋ ¹¹	lət ⁵⁵ 'straight'	səŋ ¹¹ lət ⁵⁵ lət ⁵⁵	can	Ⓢ
'right, straight'		'of very straight form'		
	lɕu ⁴⁵³ '---'	səŋ ¹¹ lɕu ⁴⁵³ lɕu ⁴⁵³ 'very straight' (piece of wood)	must	Ⓢ

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k ^h o ³⁵ 'slippery, fluent'	k ^{hw} en ⁴⁵³ '---'	k ^h o ³⁵ k ^{hw} en ⁴⁵³ k ^{hw} en ⁴⁵³ 'slippery' (frozen road)	can	Ⓢ
	k ^h on ⁴⁵³ '---'	k ^h o ³⁵ k ^h on ⁴⁵³ k ^h on ⁴⁵³ 'very smooth'; 'very fluent'	can	Ⓢ
4) Colour & brightness				
em ⁵³ 'violet'	ui ⁵⁵ '---'	em ⁵³ ui ⁵⁵ ui ⁵⁵ 'deep violet'	can	Ⓢ
pak ³¹ 'white'	pun ³³ 'grey'	pak ³¹ pun ³³ pun ³³ 'fog-white, mist-white'	can	Ⓢ
	p ^h un ⁴⁵³ '---'	pak ³¹ p ^h un ⁴⁵³ p ^h un ⁴⁵³ 'clear-white'	must	Ⓢ
	mon ⁵⁵ '---'	pak ³¹ mon ⁵⁵ mon ⁵⁵ 'off-white' (fruit, cotton)	must	Ⓝ Ⓢ
	sep ³²³ '---'	pak ³¹ sep ³²³ sep ³²³ 'snow-white, pure-white'	can	Ⓝ Ⓢ
	sin ³³ 'clean'	pak ³¹ sin ³³ sin ³³ 'clean white'	can	Ⓝ Ⓢ
	lan ⁵⁵ '---'	pak ³¹ lan ⁵⁵ lan ⁵⁵ 'dazzling white' (like the moon)	must	Ⓝ Ⓢ
ja ⁴⁵³ 'red'	wu ⁵³ '---'	ja ⁴⁵³ wu ⁵³ wu ⁵³ 'bright red' (e.g. red currant)	must	Ⓢ
	jai ¹¹ 'pear'	ja ⁴⁵³ jai ¹¹ jai ¹¹ 'red-yellow' (like a pear)	must	Ⓝ Ⓢ
	jau ³⁵ '---'	ja ⁴⁵³ jau ³⁵ jau ³⁵ 'pink' (e.g. red eyes)	can	Ⓢ
p ^h a ³⁵ 'grey, blue'	p ^h u ¹³ '---'	p ^h a ³⁵ p ^h u ¹³ p ^h u ¹³ 'ash-grey; blind'	can	Ⓝ Ⓢ
	pən ³¹ '---'	p ^h a ³⁵ pən ³¹ pən ³¹ 'grey and ugly'	can	Ⓝ Ⓢ
	pek ³¹ 'white'	p ^h a ³⁵ pek ³¹ pek ³¹ 'pale grey'	can	Ⓢ
	em ⁵³ 'purple'	p ^h a ³⁵ em ⁵³ em ⁵³ 'deep blue'	can	Ⓢ
su ³⁵ 'green, blue'	siu ¹³ '---'	su ³⁵ siu ¹³ siu ¹³ 'luscious'	must	Ⓢ
nem ⁵⁵ 'black'	ek ³⁵ '---'	nem ⁵⁵ ek ³⁵ ek ³⁵ 'black with a myriad of dots' (ants)	can	Ⓢ
	tum ³²³ '---'	nem ⁵⁵ tum ³²³ tum ³²³ 'densely-foggy'	must	Ⓢ
	meu ³⁵ '---'	nem ⁵⁵ meu ³⁵ meu ³⁵ 'jet-black, cat-black'	can	Ⓝ Ⓢ
	m ^j ai ¹³ '---'	nem ⁵⁵ m ^j ai ¹³ m ^j ai ¹³ 'black' (skin exposed to sun)	must	Ⓢ
man ¹³ 'yellow'	k ^w eu ³⁵ '---'	man ¹³ k ^w eu ³⁵ k ^w eu ³⁵ 'bright-, golden-yellow'	can	Ⓝ

en ⁵³ 'multicoloured' wa ³⁵ 'colourful'	tam ⁵³ '---'	man ¹³ tam ⁵³ tam ⁵³ 'yellow (colour of cloth)'	can	Ⓢ
	mon ⁵⁵ '---'	man ¹³ mon ⁵⁵ mon ⁵⁵ 'yellow (of a fruit)'	must	Ⓢ
	p ^h i: ³⁵ '---'	man ¹³ p ^h i: ³⁵ p ^h i: ³⁵ 'brown, rusty-yellow'	can	Ⓢ
	em ³³ '---'	man ¹³ em ³³ em ³³ 'golden'	must	Ⓝ
	i ³¹ /interj./	en ⁵³ i ³¹ i ³¹	can	Ⓢ
	m ^j au ³²³ '---'	wa ³⁵ m ^j au ³²³ m ^j au ³²³ 'colourful and gaudy, garish'	must	Ⓝ Ⓢ
	wi ⁴⁵³ '---'	wa ³⁵ wi ⁴⁵³ wi ⁴⁵³ 'extravagantly fancy'	can	Ⓝ Ⓢ
	təŋ ⁵⁵ 'bright'	wen ³¹ '---'	must	Ⓝ
	k ^w aŋ ⁵⁵ 'bright'	tiŋ ³³ '---'	can	Ⓢ
	siŋ ³³ 'clean'	k ^w aŋ ⁵⁵ siŋ ³³ siŋ ³³ 'gleaming, shining'	must	Ⓢ
təŋ ⁵³ 'dark'	jip ³²³ '---'	k ^w aŋ ⁵⁵ jip ³²³ jip ³²³ 'radiant'	can	Ⓢ
	jəp ³²³ '---'	k ^w aŋ ⁵⁵ jəp ³²³ jəp ³²³ 'brightly lit'	must	Ⓢ
	təp ⁵⁵ '---'	k ^w aŋ ⁵⁵ jəp ³²³ jəp ³²³ 'glistening'	can	Ⓢ
	tum ⁵⁵ '---'	təŋ ⁵³ təp ⁵⁵ təp ⁵⁵ 'dazzlingly bright'	must	Ⓝ Ⓢ
	tu ³²³ '---'	təŋ ⁵³ tum ⁵⁵ tum ⁵⁵ 'shiny-black'	must	Ⓢ
	meu ³⁵ '---'	təŋ ⁵³ tum ⁵⁵ tum ⁵⁵ 'pitch-black'	must	Ⓢ
	noŋ ³¹ '---'	təŋ ⁵³ tu ³²³ tu ³²³ 'sinister-black'	must	Ⓢ
	səm ³¹ 'dark'	təŋ ⁵³ meu ³⁵ meu ³⁵ 'jet-black, cat-black'	must	Ⓝ Ⓢ
	mun ¹¹ 'foggy'	təŋ ⁵³ noŋ ³¹ noŋ ³¹ 'bright outside, dark inside'	must	Ⓝ
	pun ³³ 'grey'	səm ³¹ sut ³²³ sut ³²³ 'very dark'	must	Ⓝ Ⓢ
lu ³⁵ 'clear'	tum ³²³ '---'	mun ¹¹ pun ³³ pun ³³ 'fog-grey, mist-grey'	must	Ⓢ
	ɕəp ³⁵ '---'	mun ¹¹ tum ³²³ tum ³²³ 'densely-foggy'	must	Ⓢ
	leŋ ³³ '---'	mun ¹¹ ɕəp ³⁵ ɕəp ³⁵ 'extremely foggy'	can	Ⓢ
		lu ³⁵ leŋ ³³ leŋ ³³ 'crystal-clear' (e.g. water)		
5) Sound & taste				
kəm ⁵³ 'quiet'	kiu ⁵⁵ '---'	kəm ⁵³ kiu ⁵⁵ kiu ⁵⁵ 'dead quiet'	can	Ⓢ
taŋ ⁵⁵ 'fragrant'	ŋoŋ ⁴⁵³ '---'	taŋ ⁵⁵ ŋoŋ ⁴⁵³ ŋoŋ ⁴⁵³ 'fragrant, savoury'	must	Ⓝ Ⓢ

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k ^{hw} an ³⁵ 'sweet'	ŋ ^w en ⁴⁵³ '---'	tan ⁵⁵ ŋ ^w en ⁴⁵³ ŋ ^w en ⁴⁵³ 'fragrant, savoury'	can	Ⓝ Ⓢ
	nem ³³ 'happy'	k ^{hw} an ³⁵ nem ³³ nem ³³ 'of a sweetish appearance'	can	Ⓝ Ⓢ
	təp ¹¹ '---'	k ^{hw} an ³⁵ təp ¹¹ təp ¹¹ 'very sweet'	must	Ⓝ Ⓢ
l'an ³³ 'piquant'	l'əu ¹¹ '---'	l'an ³³ l'əu ¹¹ l'əu ¹¹ 'extremely spicy and piquant'	must	Ⓝ Ⓢ
	p ^h e ¹³ 'trembling'	l'an ³³ p ^h e ¹³ p ^h e ¹³ 'extremely spicy, very hot'	must	Ⓝ
səm ¹³ 'sour'	l'ut ¹³ '---'	səm ¹³ l'ut ¹³ l'ut ¹³ 'extremely sour', acid sour	can	Ⓝ Ⓢ
sik ¹³ 'tasteless'	ŋui ¹³ '---'	sik ¹³ ŋui ¹³ ŋui ¹³ 'lightly bland' (lack of salt)	must	Ⓢ
	ɕem ¹³ '---'	sik ¹³ ɕem ¹³ ɕem ¹³ 'flavorless' (lack of salt)	can	Ⓝ Ⓢ
6) Age				
məi ⁴⁵³ 'new'	l'et ⁵⁵ '---'	məi ⁴⁵³ l'et ⁵⁵ l'et ⁵⁵ 'completely new, brand-new'	can	Ⓢ
	m'eu ¹³ '---'	məi ⁴⁵³ m'eu ¹³ m'eu ¹³ 'brand-new'	can	Ⓢ
	jəp ³²³ '---'	məi ⁴⁵³ jəp ³²³ jəp ³²³ 'brand spanking new'	can	Ⓝ Ⓢ
ni ⁵⁵ 'small, young'	nu ³²³ '---'	ni ⁵⁵ nu ³²³ nu ³²³ 'young and immature'	must	Ⓢ
7) Temperature				
tun ⁵⁵ 'warm, hot'	hu ³³ /interj./	tun ⁵⁵ hu ³³ hu ³³ 'cosily warm'	can	Ⓝ Ⓢ
	kun ⁵³ '---'	tun ⁵⁵ kun ⁵³ kun ⁵³ 'very warm'	can	Ⓝ Ⓢ
sau ³²³ 'warm'	hu ³³ '---'	sau ³²³ hu ³³ hu ³³ 'pleasantly warm'	can	Ⓝ Ⓢ
	həp ³¹ '---'	ut ¹³ həp ³¹ həp ³¹ 'feverish' (for body temperature)	must	Ⓝ Ⓢ
ɕək ³²³ 'scald'	ɕe ³³ '---'	ɕək ³²³ ɕe ³³ ɕe ³³ 'scorching' (e.g. sun)	must	Ⓝ
jim ⁴⁵³ 'cool'	ji ¹³ '---'	jim ⁴⁵³ ji ¹³ ji ¹³ 'pleasantly cool' (light breeze)	must	Ⓝ Ⓢ
B. Value				
Kam adjective	Kam expressive	Modified Kam adjective	Red.	Dialect
lai ⁵⁵ 'good, well'	ti ³³ '---'	lai ⁵⁵ ti ³³ ti ³³ 'extremely good'	must	Ⓢ

<i>C. Animated state of mind</i>				
<i>Kam adjective</i>	<i>Kam expressive</i>	<i>Modified Kam adjective</i>	<i>Red.</i>	<i>Dialect</i>
em ³⁵ 'confused'	u ³²³ '---'	em ³⁵ u ³²³ u ³²³ 'very confused'	can	Ⓢ
t ^h i ⁴⁵³ 'angry'	pəi ¹¹ '---'	t ^h i ⁴⁵³ pəi ¹¹ pəi ¹¹ 'furious'	must	Ⓢ
	tu ³¹ '---'	t ^h i ⁴⁵³ tu ³¹ tu ³¹ 'livid'	must	Ⓢ
it ³²³ 'ill, painful'	kiŋ ⁵³ '---'	it ³²³ kiŋ ⁵³ kiŋ ⁵³ 'very painful'	must	Ⓢ
	ŋ ^w ək ³²³ '---'	it ³²³ ŋ ^w ək ³²³ ŋ ^w ək ³²³ 'chronically ill'	must	Ⓢ
	som ³³ '---'	it ³²³ som ³³ som ³³ 'severely aching'	must	Ⓢ
mən ³¹ 'happy, lucky'	k ^w e ⁵⁵ '---'	mən ³¹ k ^w e ⁵⁵ k ^w e ⁵⁵ 'happy-go-lucky'	must	Ⓝ Ⓢ
tən ³¹ 'strong, robust'	təu ¹¹ '---'	tən ³¹ təu ¹¹ təu ¹¹ 'very robust'	must	Ⓝ

5.3. List of Kam verb-expressive compounds ordered by semantic classes

A. Physical events (implying physical affect of the arguments involved)

<i>Kam verb</i>	<i>Kam expressive</i>	<i>Modified Kam verb</i>	<i>Red.</i>	<i>Dialect</i>
<i>1) Creation & production</i>				
p ^j a ⁵⁵ 'weave'	ɕet ¹³ 'quickly'	p ^j a ⁵⁵ ɕet ¹³ ɕet ¹³ 'weave very quickly'	can	Ⓢ
ɕa ³²³ 'write'	ɕet ¹³ 'quickly'	ɕa ³²³ ɕet ¹³ ɕet ¹³ 'write quickly and fluently'	can	Ⓝ Ⓢ
	nok ³⁵ 'busily'	ɕa ³²³ nok ³⁵ nok ³⁵ 'be immersed in writing'	can	Ⓢ
we ³¹ 'do, make'	təp ⁵⁵ 'slowly'	we ³¹ təp ⁵⁵ təp ⁵⁵ 'do slowly'	must	Ⓢ
we ³¹ oŋ ⁵⁵ 'work'	nət ³⁵ 'slowly'	we ³¹ oŋ ⁵⁵ nət ³⁵ nət ³⁵ 'work slowly'	must	Ⓢ
<i>2) Affect</i>				
aŋ ⁵³ 'glue, stick'	əm ⁵⁵ 'cook'	aŋ ⁵³ əm ⁵⁵ əm ⁵⁵ 'glue with heat'	can	Ⓢ
peu ⁵³ 'explode'	p ^h um ³³ /onom./	peu ⁵³ p ^h um ³³ p ^h um ³³ 'explode loudly' (a rock)	can	Ⓝ Ⓢ
	p ^h et ³⁵ /onom./	peu ⁵³ p ^h et ³⁵ p ^h et ³⁵ 'pop' (puff rice)	must	Ⓝ Ⓢ
heu ³⁵ 'beat'	pəp ¹¹ /onom./	heu ³⁵ pəp ¹¹ pəp ¹¹ 'beat with a dull sound'	can	Ⓝ Ⓢ

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	pət ¹¹ /onom./	heu ³⁵ pət ¹¹ pət ¹¹ 'rattle'	can	(N) (S)
	pəm ³¹ /onom./	heu ³⁵ pəm ³¹ pəm ³¹	must	(N) (S)
	p ^j ət ³²³ 'flog'	'drum' (hollow sound) heu ³⁵ p ^j ət ³²³ p ^j ət ³²³	can	(N) (S)
ɕok ⁵⁵ 'beat, pound'	pək ¹¹ /onom./	'beat repeatedly' ɕok ⁵⁵ pək ¹¹ pək ¹¹	must	(N) (S)
	pok ¹¹ /onom./	'beat' (the breast) ɕok ⁵⁵ pok ¹¹ pok ¹¹	must	(N) (S)
pək ³¹ 'thresh, beat'	pət ³²³ 'punch'	'punch' (e.g. in a fight) pək ³¹ pət ³²³ pət ³²³	must	(N) (S)
	ɕət ¹³ 'quickly'	'punch repeatedly' pək ³¹ ɕət ¹³ ɕət ¹³	can	(N) (S)
p ^j ək ⁵⁵ 'whip'	sət ³²³ 'whip'	'strike quickly' p ^j ək ⁵⁵ sət ³²³ sət ³²³	must	(N) (S)
	ɕit ³²³ /onom./	'whip repeatedly' p ^j ək ⁵⁵ ɕit ³²³ ɕit ³²³	must	(N) (S)
	ɕət ¹³ 'quickly'	'swishing the whip' p ^j ək ⁵⁵ ɕət ¹³ ɕət ¹³	can	(N) (S)
p ^h ək ¹³ 'flap'	pəm ³¹ /onom./	'cracking the whip' p ^h ək ¹³ pəm ³¹ pəm ³¹	can	(N) (S)
mək ¹³ 'chop'	p ^j ət ³²³ 'thrash'	'flapping' (hollow sound) mək ¹³ p ^j ət ³²³ p ^j ət ³²³	can	(N) (S)
te ⁵³ 'quarrel'	pək ¹¹ /onom./	'chop finely' te ⁵³ pək ¹¹ pək ¹¹	must	(N) (S)
tək ³²³ 'hit, knock'	teŋ ⁵⁵ /onom./	'noisily fight each other' tək ³²³ teŋ ⁵⁵ teŋ ⁵⁵ 'noisy knocking' (sound of loom)'	must	(S)
tət ⁵⁵ 'cut'	k ^w ət ³¹ 'quickly'	tət ⁵⁵ k ^w ət ³¹ k ^w ət ³¹ 'cut quickly'	can	(S)
k ^w ən ⁵⁵ 'cut (scissors)'	ɬep ³¹ /onom./	k ^w ən ⁵⁵ ɬep ³¹ ɬep ³¹	must	(S)
ɕək ³²³ 'scald, burn'	ɬət ³²³ '---'	'cut noisily with scissors' ɕək ³²³ ɬət ³²³ ɬət ³²³	must	(S)
ɬui ⁵³ 'pinch'	tət ³²³ 'quickly'	'extremely scalding' ɬui ⁵³ tət ³²³ tət ³²³ 'pinch quickly'	must	(S)
l ^j a ¹¹ 'lick'	l ^j əp ¹³ /onom./	l ^j a ¹¹ l ^j əp ¹³ l ^j əp ¹³	must	(S)
ɬut ¹³ 'scratch'	nət ³¹	'lap noisily' (e.g. dog) ɬut ¹³ nət ³¹ nət ³¹ 'scratch	must	(S)
it ³¹ 'bite'	'disorderly' ŋa ³³ 'blankly'	one's head randomly' it ³¹ ŋa ³³ ŋa ³³	must	(N) (S)
ɕeu ⁴⁵³ 'peck'	top ³²³ /onom./	'chew to the bone' ɕeu ⁴⁵³ top ³²³ top ³²³	can	(S)
		'peck noisily' (woodpecker)		

	tok ³²³ /onom./	ɕeu ⁴⁵³ tok ³²³ tok ³²³	can	Ⓢ
ɕa ¹³ mi:n ¹¹	weu ³⁵ /onom./	'peck noisily' (woodpecker)		
'spin'		ɕa ¹³ mi:n ¹¹ weu ³⁵ weu ³⁵	must	Ⓢ
		'spin noisily with a loom'		
3) Destruction & consumption				
ti ⁵⁵ 'smoke (a pipe)'	pet ¹¹ /onom./	ti ⁵⁵ pet ¹¹ pet ¹¹	can	Ⓢ
tan ⁵⁵ /ti ⁵⁵ 'eat, drink'	təp ⁵⁵ 'slowly'	'suck noisily' (on a pipe)		
		tan ⁵⁵ təp ⁵⁵ təp ⁵⁵	must	Ⓢ
		'eat up slowly'		
	(k ^h)ot ³¹ /onom./	ti ⁵⁵ (k ^h)ot ³¹ (k ^h)ot ³¹ 'gobble'	must	Ⓝ Ⓢ
	m ^j at ³¹ /onom./	ti ⁵⁵ m ^j at ³¹ m ^j at ³¹ 'chew noisily'	must	Ⓢ
wum ³¹ 'drink'	(k ^h)ot ³¹ /onom./	wum ³¹ (k ^h)ot ³¹ (k ^h)ot ³¹	must	Ⓝ Ⓢ
		'drink noisily'		
en ³⁵ 'gulp'	(k ^h)ot ³¹ /onom./	en ³⁵ (k ^h)ot ³¹ (k ^h)ot ³¹	can	Ⓝ Ⓢ
		'gulping'		

B. Relational situations (Positions and motions)

Kam verb	Kam expressive	Modified Kam verb	Red.	Dialect
1) Introduction & initiation				
pu ⁵⁵ 'pick up'	təp ⁵⁵ 'slowly'	pu ⁵⁵ təp ⁵⁵ təp ⁵⁵	must	Ⓢ
		'pick up slowly'		
ɕi ⁵³ 'point at'	tom ⁵⁵ 'rudely'	ɕi ⁵³ tom ⁵⁵ tom ⁵⁵	'point can	Ⓢ
		aggressively at someone'		
tu ⁵⁵ 'grow, sprout'	kaŋ ³³ 'abundantly'	tu ⁵⁵ kaŋ ³³ kaŋ ³³	must	Ⓢ
we ³¹ 'become'	kaŋ ³³ 'abundantly'	we ³¹ kaŋ ³³ kaŋ ³³	must	Ⓢ
	koŋ ¹¹ '---'	'fully becoming'		
		we ³¹ koŋ ¹¹ koŋ ¹¹ 'very becoming, stunning (girls)'	must	Ⓢ
pen ⁵³ 'dress up'	koŋ ¹¹ '---'	pen ⁵³ koŋ ¹¹ koŋ ¹¹	must	Ⓢ
		'dress becomingly' (girls)		
siu ¹³ ɕən ³⁵ 'dress up'	koŋ ¹¹ '---'	siu ¹³ ɕən ³⁵ koŋ ¹¹ koŋ ¹¹	must	Ⓢ
		'dress stunningly' (girls)		
sui ⁵³ 'sit down'	k ^w et ³¹ 'quickly'	sui ⁵³ k ^w et ³¹ k ^w et ³¹	can	Ⓢ
		'sit down quickly'		
suk ³¹ 'bind up'	k ^w et ³¹ 'quickly'	suk ³¹ k ^w et ³¹ k ^w et ³¹ 'bind up quickly'	can	Ⓢ
əi ³⁵ to ⁵⁵ 'open the door'	ŋet ³²³ /onom./	əi ³⁵ to ⁵⁵ ŋet ³²³ ŋet ³²³	must	Ⓢ
		'noisily open the door'		

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2) Motion				
lɛŋ ³³ 'escape'	pən ⁵⁵ 'pell-mell'	lɛŋ ³³ pən ⁵⁵ pən ⁵⁵	must	Ⓢ
		'flee in disarray'		
san ⁴⁵³ 'disperse'	pən ⁵⁵ 'pell-mell'	san ⁴⁵³ pən ⁵⁵ pən ⁵⁵ 'scatter'	must	Ⓢ
pən ³²³ 'fly'	həm ³¹	pən ³²³ həm ³¹ həm ³¹	must	Ⓢ
	'in swarms'	'swarming'		
	hu ³¹ 'in a line'	pən ³²³ hu ³¹ hu ³¹	can	Ⓢ
		'fly in formation'		
	p ^h əi ³¹ /onom./	pən ³²³ p ^h əi ³¹ p ^h əi ³¹	can	Ⓝ Ⓢ
		'fly noisily' (sound of wings)		
	lɔu ³⁵	pən ³²³ lɔu ³⁵ lɔu ³⁵	must	Ⓢ
	'disorderly'	'fly randomly'		
pai ⁵⁵ 'go'	həm ³¹	pai ⁵⁵ həm ³¹ həm ³¹	must	Ⓢ
	'in groups'	'go together'		
	hu ³¹	pai ⁵⁵ hu ³¹ hu ³¹ 'go singly'	must	Ⓝ Ⓢ
	'one by one'			
	k ^{hw} əŋ ⁴⁵³	pai ⁵⁵ k ^{hw} əŋ ⁴⁵³ k ^{hw} əŋ ⁴⁵³	must	Ⓢ
	'in a line'	'go in order'		
ma ³⁵ 'come'	lət ⁵⁵ 'straight'	pai ⁵⁵ lət ⁵⁵ lət ⁵⁵ 'go directly'	must	Ⓢ
	həm ³¹	ma ³⁵ həm ³¹ həm ³¹	must	Ⓢ
	'in groups'	'come together'		
	hu ³¹ 'in a line'	ma ³⁵ hu ³¹ hu ³¹ 'come in a queue'	must	Ⓝ Ⓢ
	k ^{hw} əŋ ⁴⁵³	ma ³⁵ k ^{hw} əŋ ⁴⁵³ k ^{hw} əŋ ⁴⁵³	must	Ⓢ
	'in a line'	'come in order'		
t ^h am ¹³ 'walk'	t ^h et ³⁵ '---'	t ^h am ¹³ t ^h et ³⁵ t ^h et ³⁵	can	Ⓢ
		'walking and hopping'		
	təŋ ³²³ '---'	t ^h am ¹³ təŋ ³²³ təŋ ³²³	must	Ⓝ
		'stagger'		
	k ^{hw} əŋ ³¹	t ^h am ¹³ k ^{hw} əŋ ³¹ k ^{hw} əŋ ³¹	must	Ⓢ
	'in a line'	'walk in order'		
ɬon ⁵³	lɛ ⁴⁵³	ɬon ⁵³ lɛ ⁴⁵³ lɛ ⁴⁵³	must	Ⓢ
'(re)turn'	'abruptedly'	'turn around abruptly'		
p ^j iu ⁵⁵ 'jump'	p ^h jəm ¹³	p ^j iu ⁵⁵ p ^h jəm ¹³ p ^h jəm ¹³	can	Ⓝ Ⓢ
	/onom./	'jump with a splash'		
	t ^h et ³⁵	p ^j iu ⁵⁵ t ^h et ³⁵ t ^h et ³⁵	can	Ⓢ
	'with jumps'	'jump to and fro'		
	t ^h oŋ ³⁵ 'high'	p ^j iu ⁵⁵ t ^h oŋ ³⁵ t ^h oŋ ³⁵ 'leaping'	can	Ⓢ
	t ^h ok ³⁵	p ^j iu ⁵⁵ t ^h ok ³⁵ t ^h ok ³⁵	can	Ⓢ
	'one-footed'	'hopping'		
pit ³²³ 'bounce'	p ^h jek ¹³ '---'	pit ³²³ p ^h jek ¹³ p ^h jek ¹³	must	Ⓝ Ⓢ
		'leap forward'		

	səŋ ³²³ '---'	pit ³²³ səŋ ³²³ səŋ ³²³	can	Ⓢ
nəi ³⁵ 'move'	pəp ¹¹ /onom./	'flapping' (fish in net) nəi ³⁵ pəp ¹¹ pəp ¹¹ 'shiver' (e.g. in fear)	can	Ⓝ Ⓢ
	həm ³¹ 'in groups'	nəi ³⁵ həm ³¹ həm ³¹	must	Ⓢ
	hu ³¹ 'in a line'	nəi ³⁵ hu ³¹ hu ³¹ 'move singly'	can	Ⓝ Ⓢ
ho ³¹ 'roll'	nəp ⁵⁵ '---'	nəi ³⁵ nəp ⁵⁵ nəp ⁵⁵ 'wiggle'	must	Ⓢ
	non ³²³ '---'	ho ³¹ non ³²³ non ³²³	must	Ⓢ
tən ¹¹ 'rise'	ɕət ¹³ 'quickly'	'keep on rolling' tən ¹¹ ɕət ¹³ ɕət ¹³	can	Ⓝ Ⓢ
jən ⁵⁵ 'raise'	ɕət ¹³ 'quickly'	'rise very quickly' jən ⁵⁵ ɕət ¹³ ɕət ¹³	can	Ⓝ Ⓢ
tu ⁵⁵ 'put out'	lop ³²³	'raise very quickly' tu ⁵⁵ lop ³²³ lop ³²³	must	Ⓝ Ⓢ
	'conspicuously'	'put out conspicuously'		
tok ⁵⁵ 'fall'	t ^h əm ³⁵	tok ⁵⁵ t ^h əm ³⁵ t ^h əm ³⁵	must	Ⓢ
	/omom./	'fall with a splash'		
tok ⁵⁵ p ^j ən ⁵⁵	təp ⁵⁵ /omom./	tok ⁵⁵ p ^j ən ⁵⁵ təp ⁵⁵ təp ⁵⁵	must	Ⓢ
'rain'		'rain nosily' (e.g. drops)		
	k ^{hw} e ³¹	tok ⁵⁵ p ^j ən ⁵⁵ k ^{hw} e ³¹ k ^{hw} e ³¹	must	Ⓝ
	'continuously'	'rain continuously'		
tok ⁵⁵ u ³¹ 'hail'	ɕo ³¹ /omom./	tok ⁵⁵ u ³¹ ɕo ³¹ ɕo ³¹	must	Ⓢ
		'hail noisily'		
3) Position				
təi ¹¹ 'take, hold'	təm ⁵³ 'fixedly'	təi ¹¹ təm ⁵³ təm ⁵³ 'hold tightly'	must	Ⓢ
tən ¹¹ 'stand'	təm ⁵³ 'fixedly'	tən ¹¹ təm ⁵³ təm ⁵³	must	Ⓢ
		'stand firmly'		
nau ³³	lən ⁵⁵ '---'	nau ³³ lən ⁵⁵ lən ⁵⁵	can	Ⓢ
'live, be at'		'stand still'		

C. Animated state of mind

Kam verb	Kam expressive	Modified Kam verb	Red.	Dialect
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1) Mental activity & state

ɕaŋ ⁴⁵³ 'think, miss'	ŋui ³⁵	ɕaŋ ⁴⁵³ ŋui ³⁵ ŋui ³⁵	must	Ⓢ
	'yearning'	'strongly miss somebody'		
nək ³⁵ 'sleep'	p ^h i ¹³ '---'	nək ³⁵ p ^h i ¹³ p ^h i ¹³ 'sleep deeply'	must	Ⓝ Ⓢ
nən ³³	t ^h ək ³⁵ '---'	nən ³³ t ^h ək ³⁵ t ^h ək ³⁵ 'recall'	must	Ⓢ
'remember'		well and constantly'		

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2) Expression & exteriorisation				
uŋ ¹³ 'sound'	pep ¹¹ /onom./	uŋ ¹³ pep ¹¹ pep ¹¹ 'muffled'	must	Ⓝ Ⓢ
	pet ¹¹ /onom./	uŋ ¹³ pet ¹¹ pet ¹¹ 'crackling'	must	Ⓝ Ⓢ
	pem ³¹ /onom./	uŋ ¹³ pem ³¹ pem ³¹	can	Ⓝ Ⓢ
		'hollow sounding'		
	hu ³¹ /onom./	uŋ ¹³ hu ³¹ hu ³¹ 'whistling'	can	Ⓝ Ⓢ
	p ^h et ³⁵	uŋ ¹³ p ^h et ³⁵ p ^h et ³⁵	must	Ⓝ Ⓢ
	/onom./	'popping (e.g. puff rice)'		
	k ^h et ³⁵	uŋ ¹³ k ^h et ³⁵ k ^h et ³⁵	must	Ⓢ
	/onom./	'plucking' (Biba instrument)		
	k ^h ot ³¹ /onom./	uŋ ¹³ k ^h ot ³¹ k ^h ot ³¹ 'rumbling' (belly) (borborygmus)	can	Ⓢ
uŋ ¹³ p ^j a ³²³ 'rumble'	k ^{hw} ek ³⁵	uŋ ¹³ k ^{hw} ek ³⁵ k ^{hw} ek ³⁵	must	Ⓝ Ⓢ
	/onom./	'snapping' (fingers)		
	wen ⁵³ /onom./	uŋ ¹³ wen ⁵³ wen ⁵³	must	Ⓢ
		'rustling' (leaves)		
	p ^h em ³¹	uŋ ¹³ p ^h em ³¹ p ^h em ³¹	can	Ⓢ
	/onom./	'bangbang' (sound of a gun)		
	hem ³¹ /onom./	uŋ ¹³ p ^j a ³²³ hem ³¹ hem ³¹	must	Ⓝ Ⓢ
		'rumble' (thunder)		
	hem ³¹	ko ⁵⁵ hem ³¹ hem ³¹	must	Ⓢ
	'in groups'	'laugh together'		
ko ⁵⁵ 'laugh, smile'	li: ⁵⁵ /onom./	ko ⁵⁵ li: ⁵⁵ li: ⁵⁵ 'giggling'	must	Ⓢ
	nəm ³²³ '---'	ko ⁵⁵ nəm ³²³ nəm ³²³	can	Ⓝ Ⓢ
		'smile lovingly'		
	nin ⁵⁵	ko ⁵⁵ nin ⁵⁵ nin ⁵⁵ 'grimacing'	must	Ⓢ
	'grimacing'			
	t ^h a ³¹ /onom./	ko ⁵⁵ t ^h a ³¹ t ^h a ³¹	must	Ⓢ
		'roaring laughing'		
	ha ³³ /onom./	ko ⁵⁵ ha ³³ ha ³³	must	Ⓢ
		'laughing' (haha)		
	kit ⁵⁵ '---'	ko ⁵⁵ kit ⁵⁵ kit ⁵⁵	must	Ⓝ Ⓢ
ne ³²³ 'weep'		'laugh pleasantly'		
	ne ³³ '---'	ko ⁵⁵ ne ³³ ne ³³ 'smile'	can	Ⓝ Ⓢ
	hem ³¹	ne ³²³ hem ³¹ hem ³¹	must	Ⓢ
	'in groups'	'weep together'		
	l ^j oŋ ⁵³ '---'	ne ³²³ l ^j oŋ ⁵³ l ^j oŋ ⁵³ 'bawling'	must	Ⓢ
	ŋu ¹¹ /onom./	ne ³²³ ŋu ¹¹ ŋu ¹¹	must	Ⓝ Ⓢ
jaŋ ⁵⁵ 'sigh'		'weeping, sobbing'		
	həi ³¹ /onom./	jaŋ ⁵⁵ həi ³¹ həi ³¹	must	Ⓢ
		'sigh deeply'		
	ŋi ³²³ /onom./	jaŋ ⁵⁵ ŋi ³²³ ŋi ³²³ 'moaning'	must	Ⓢ

son ⁵⁵ 'snore'	hot ³¹ /onom./	son ⁵⁵ hot ³¹ hot ³¹	must	Ⓢ
len ⁴⁵³ 'snap'	k ^{hw} ək ³⁵	'snore with grunting'		
	/onom./	len ⁴⁵³ k ^{hw} ək ³⁵ k ^{hw} ək ³⁵	must	Ⓝ Ⓢ
pan ⁵⁵ /wan ⁵⁵	leŋ ⁵⁵ /onom./	'snap fingers loudly'		
'shout'		pan ⁵⁵ leŋ ⁵⁵ leŋ ⁵⁵ 'shout	must	Ⓢ
	m ^j au ³²³	loudly' (in deafness context)		
	/onom./	pan ⁵⁵ m ^j au ³²³ m ^j au ³²³	must	Ⓢ
	ŋa ⁴⁵³ /onom./	'miaow' (the sound of cats)		
		pan ⁵⁵ ŋa ⁴⁵³ ŋa ⁴⁵³	must	Ⓝ Ⓢ
sin ¹³ 'call'	ŋ ^w e ⁵³ /onom./	'crying' (the sound of a baby)		
		sin ¹³ ŋ ^w e ⁵³ ŋ ^w e ⁵³	must	Ⓢ
to ³²³ a ⁵⁵ 'sing'	leŋ ⁵⁵ /onom./	'caw' (of a raven or crow)		
		to ³²³ a ⁵⁵ leŋ ⁵⁵ leŋ ⁵⁵	must	Ⓝ Ⓢ
wa ³³ /aŋ ³²³	mun ⁵³	'harmonic singing' (girls)		
'speak'	'eloquently'	aŋ ³²³ mun ⁵³ mun ⁵³	must	Ⓢ
ɕui ³⁵ lən ¹¹	nən ³⁵ /onom./	'speak eloquently'		
'play Lusheng'		ɕui ³⁵ lən ¹¹ nən ³⁵ nən ³⁵	must	Ⓢ
		'play Lusheng loudly'		

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