

### Optional classifiers in a ‘classifiers-for-numerals’ language

**Overview.** Jinghpaw (Tibeto-Burman; Myanmar) presents a curious case in numeral modification: while classifiers are available for some of its count nouns, they are always optional and a numeral can always directly combine with a count noun. This pattern puts Jinghpaw in between Chierchia’s (2019) Type II languages aka *classifier* languages such as Chinese and Type I languages such as English (see also Chierchia 1998). Building on previous accounts (Krifka 1995, Sontras 2014) with novel field data, I provide an analysis that captures this distribution of Jinghpaw classifiers: the classifiers are overt realizations of the head of a cardinal measure phrase that takes a *d* type numeral as argument to produce a modifier. Jinghpaw thus constitutes a case where a bare NP language is not simultaneously a ‘classifiers-for-nouns’ language (cf. Chierchia 1998). The Jinghpaw data also show that idiosyncrasies in whether a noun requires a classifier is not necessarily tied to special semantics of a subset of nouns or a trait of classifiers for nouns (cf. Little et al. 2022).

**Background.** JINGHPAW NOUNS. Jinghpaw is a bare NP language. This is reflected in three aspects: (i) Jinghpaw has generalized bare NP arguments (1)-(3); (ii) Jinghpaw generally does not mark plurality (2)-(3); (iii) Jinghpaw has no definite or indefinite articles (3). This might seem to suggest Jinghpaw nouns as kinds, as has been proposed for other bare NP languages such as Mandarin (Chierchia 1998). However, unlike Mandarin, Jinghpaw shows a clear count/mass distinction in numeral modification and pluralization: (i) count nouns can always combine directly with a numeral while mass nouns cannot unless a measure unit intermediates (4); (ii) count nouns of all types can form plurals (by combining with the plural marker *nī*) while mass nouns cannot (5). Thus it is reasonable that not all Jinghpaw nouns are kind-denoting. I treat Jinghpaw count nouns as predicates.

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| (1) Tsáp hpràw gàw grài tâw ài.<br>panda TOP very rare NFUT<br>‘The panda is very rare.’ (kind)                                     | (4) a. nùm lăhkâwng<br>woman two<br>‘two women’                                                                                 |
| (2) Û kâw mûn tû ài.<br>chicken LOC feather grow NFUT<br>‘Chickens have feathers.’ (generic)                                        | b. hká *(dibū) lăhkâwng<br>water *(pot) two<br>‘two pots of water’                                                              |
| (3) Ngāi mǎgwī mù ài.<br>1SG elephant see NFUT<br>‘I see an elephant/elephants.’ (indef.)<br>or ‘I see the elephant(s).’ (definite) | (5) a. nùm / bràngtái / hpún nī<br>woman / rabbit / tree PL<br>‘women / rabbits / trees’<br>b. *hká / jùm nī<br>water / salt PL |

THE INVENTORY OF JINGHPAW CLASSIFIERS. Jinghpaw only contains a very small number of classifiers, which optionally occur with selected nouns (Dai 2012, Kurabe 2017, a.o.). Based on the data I have collected, I work with the hypothesis there are two classifiers in Jinghpaw, *mārāi* and *hkùm*. The former is the classifier for humans; the latter is for edibles such as cooked animals and harvested fruits. The majority of the Jinghpaw nouns never appear with a classifier, for the simple reason that there they are not humans or edibles.

**Jinghpaw classifiers are CardP head.** Jinghpaw classifiers have the following properties. (i) Classifiers form a constituent with the numeral they co-occur with. We see in (6) that [Clf Num] phrases can be used pronominally; as a matter of fact, both numerals and [Clf Num] phrases can. We also see in (9) that [Clf Num] phrases can be used as answer fragments. (ii) Classifiers must co-occur with a numeral. Classifiers appearing without a numeral yields ungrammatical results (7). The only two non-numeral items that may co-occur with classifiers are ‘how many’ and ‘every’, which I will argue do not constitute true exceptions to the generalization in (ii), as ‘how many’ is unique among quantifiers in that it really is a *wh*-word equivalent to ‘what number’ that denotes the set of type *d* elements, while Jinghpaw ‘every’ comes with a covert numeral ‘one’ (8). (iii) Numerals can freely occur by themselves without a classifier. In (9) any of the four answers is allowed; the difference is only found in formality/registers.

- (6) Ngāi jàwngmà (mārāi) mǎlī mù ài. (Mārāi) māsūm gàw làikā htí ngà ài.  
1SG student (CL) five see NFUT (CL) three TOP literature read PROG NFUT  
‘I see five students. Three are reading.’

