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1. Introduction

This paper examines the ditransitive constructions in Laz. Laz belongs to the South Caucasian language family, which also includes Mingrelian, Georgian and Svan. It is spoken mainly in North-East Turkey. The last official Turkish census dates back to 1965 and gives the number of 85,108 speakers (Andrews 1989:176). Feurstein (1983) estimates 250,000 speakers. Laz is an unwritten and endangered language. Almost all speakers are bilingual with Turkish. Although young people still understand Laz, most of them speak only Turkish.

According to some scholars (Marr 1910; Čikobava 1936), Laz is divided into three main dialects. Kutscher (2001) distinguishes four dialects. The corpus on which this work is based is from the dialect of Arhavi. It includes published texts (Dumézil 1937, 1967, 1972; Žyent'i 1938; Q'ipšize 1939; K'art'ozia 1972, 1993) as well as data collected by the author in Turkey from native speakers since 2004. Although most data come from spontaneous texts, some have been elicited. A preliminary study of ditransitive constructions in Laz is provided in Lacroix (2009), a description of the Arhavi dialect.¹

The paper is organized as follows. Section 2 examines the coding properties of core arguments in intransitive and monotransitive constructions. Ditransitive verbs are of two lexical types: in section 3, I consider non-derived ditransitive verbs; in section 4, I examine applicative ditransitive verbs. Section 5 is dedicated to the question of the distribution of object properties in ditransitive constructions and to their alignment type. One typologically interesting characteristic of the verb 'give' in Laz is its pattern of agreement: person-marking of the Theme and Recipient depends on a person hierarchy. Cross-linguistically, it is much more common for person hierarchies to determine the marking of the A and O arguments. This point is examined in section 6. The verb 'give' may take one of two preverbs, *me-* and *mo-*, the distribution of which is reminiscent of direct/inverse markers; this question is considered in section 7. Finally, it is shown in section 8 that in the construction known as 'inversion', the Recipient must be demoted to an oblique position.

2. Coding Properties

2.1 Morphology of cross-referencing affixes

The morphological structure of finite verb forms in Laz may be summarized as follows:

¹The transcription of Laz used here includes the following symbols: \check{z} = [dʒ], \check{z} = [dz], c = [ts]; the apostrophe indicates glottalized consonants. The phoneme /r/ tends to drop; consequently, some morphemes may appear with /r/ in some example, and without /r/ in another. Abbreviations are given at the end of the article.

- 4 preverbs
- 3 preverbs
- 2 cross-referencing prefixes
- 1 valency markers
- 0 root
- 1 causative
- 2 thematic suffixes
- 3 TAM suffixes
- 4 cross-referencing suffixes
- 5 evidential and pluperfect

According to their function, preverbs can be divided into two groups. Most preverbs (more than thirty) are used to derive lexical items and have basically a spatial meaning; compare for instance *e-xt-* ‘go up’, *ge-xt-* ‘go down’, *gama-xt-* ‘go out’, *ama-xt-* ‘enter’, *dolo-xt-* ‘go down in a vertical, narrow place’ and *eša-xt-* ‘go out from a narrow place’. Four preverbs are used in the formation of tenses; they are also sensitive to polarity, information structure and sentence type.

There are two sets of cross-referencing affixes (‘Set I’ and ‘Set II’), glossed by Roman numerals. As we will see in section 2.2, Set I cross-references (among other things) the transitive subject while Set II cross-references (among other things) the object.²

Table 1 gives the paradigm of Set I affixes, without phonologically conditioned allomorphs. The verb *-zir-* ‘see’ in the present tense and with a 3rd person object is taken as an example (3rd person objects are not marked on the verb; see table 2). This verb takes the thematic suffix *-om*.³ In the future, a set of suffixes cumulate the realization of person and tense; these are omitted from the table for the sake of simplicity.

	CR prefixes	CR suffixes	examples
1sg	<i>b-</i>		<i>b-zir-om</i> ‘I see him’
2sg			<i>zir-om</i> ‘you _{sg} see him’
3sg		<i>-s/n/u</i>	<i>zir-om-s</i> ‘he sees him’
1pl	<i>b-</i>	<i>-t</i>	<i>b-zir-om-t</i> ‘we see him’
2pl		<i>-t</i>	<i>zir-om-t</i> ‘you _{pl} see him’
3pl		<i>-an/nan/es/n</i>	<i>zir-om-an</i> ‘they see him’

Table 1: Set I cross-referencing affixes

²Set I and Set II affixes are called ‘subject’ and ‘object’ markers by some authors (Tschenkéli 1958; Holisky 1991; Harris 1985; Tuite 1998; Boeder 2005). However, in the construction known as ‘inversion’, the argument cross-referenced by so-called ‘object’ markers (i.e. Set II affixes) exhibits subject properties (see section 8). Consequently, I prefer to use the more neutral terms ‘Set I’ and ‘Set II’ affixes, which do not prejudge the actual functions of these affixes.

³Thematic suffixes appear in certain tenses, including the present, the imperfect and the subjunctive. There is a small class of verbs which do not take thematic suffixes.

In 3rd person singular and plural, the choice between the different allomorphs is conditioned by verb class and tense. For instance, the verb illustrated in (5) below belongs to another class than ‘see’; it takes the 3rd person singular suffix *-n*. In past tenses, the suffix is *-u* for all verbs (see ex.1).

Table 2 gives the combinations of Set I and Set II affixes as they appear in transitive verb forms. Phonologically conditioned allomorphs are not displayed. There is no difference in Set II between 3rd person singular and 3rd person plural. The choice between the suffixes separated by a slash is again conditioned by verb class and tense. Suffixes of the future tense are ignored.⁴

I/II	1sg	2sg	3	1pl	2pl
1sg		<i>g-</i>	<i>b-</i>		<i>g-t</i>
2sg	<i>m-</i>		-	<i>m-t</i>	
3sg	<i>m-s/n/u</i>	<i>g-s/n/u</i>	<i>-s/n/u</i>	<i>m-an/nan/es/n</i>	<i>g-an/nan/es/n</i>
1pl		<i>g-t</i>	<i>b-t</i>		<i>g-t</i>
2pl	<i>m-t</i>		<i>-t</i>	<i>m-t</i>	
3pl	<i>m-an/nan/es/n</i>	<i>g-an/nan/es/n</i>	<i>-an/nan/es/n</i>	<i>m-an/nan/es/n</i>	<i>g-an/nan/es/n</i>

Table 2: Combinations of Set I and Set II cross-referencing affixes

2.2 Coding properties of full NPs

In Arhavi Laz, syntactic functions are indicated by cases and cross-referencing affixes. Sentence 1 illustrates the transitive construction. The A argument (*berek*) is in the ergative and is cross-referenced on the verb by a Set I affix (*-u*); the O argument (*ocxož*) is in the absolutive and is cross-referenced by a Set II affix (which is zero in 3rd person, as we have seen). 1st and 2nd person objects are overtly cross-referenced on the verb – see the prefix *k-* in example (2).

- (1) *Bere-k ocxož me-tk'oč-u.*
 child-ERG comb PV-throw-AOR.I3SG
 ‘The boy threw the comb.’ (D37.1)⁵

- (2) *Ma si e-k-č'op-are.*
 1SG 2SG PV-II2-marry-FUT.II/2SG
 ‘I will marry you.’ (D37.12)

The subject (A) triggers number agreement, contrary to the object. Thus, in (3b) below, *bozopek* ‘the girls’ is cross-referenced by the plural suffix *-an*; in (3c), by contrast, the plurality of the object *bič'epe* ‘the boys’ is not indicated in the verb.

⁴In Lacroix (to appear (a)), a diachronic scenario is put forward which explains the distribution of the suffixes in table 2.

⁵Abbreviations of the references of the examples are given at the end of the article.

- (3) a. *Bozo-k bič'i zi-om-s.*
 girl-ERG boy see-TH-I3SG
 'The girl sees the boy.' (inf)
- b. *Bozo-pe-k bič'i zi-om-an.*
 girl-PL-ERG boy see-TH-I3.PL
 'The girls see the boy.' (inf)
- c. *Bozo-k bič'-epe zi-om-s.*
 girl-ERG boy-PL see-TH-I3SG
 'The girl sees the boys.' (inf)

The issue of number agreement concerns only 3rd person arguments, as 1st and 2nd person arguments always trigger number agreement. In (4), for instance, the plurality of the second person object is marked by *-t*:

- (4) *Ma tkva g-zi-om-t.*
 1SG 2PL II2-see-TH-1/2PL
 'I see you_{pl.}' (inf)

By 'transitive verb' is meant a verb taking an object (O argument); a verb which does not take an object is intransitive.

Intransitive verbs may be plain or inverse. Inverse verbs take a dative subject cross-referenced by Set II affixes; they are examined in section 8. The subject of plain intransitive verbs is cross-referenced by Set I affixes. Among these verbs, some take an absolutive subject (ex.5) while others take an ergative subject (ex.6). The intransitive subject, like the transitive subject, triggers number agreement (ex.7).

- (5) *Nek'na ge-i-nk'ol-e-n.*
 door PV-VALi-close-TH-I3SG
 'The door closes.' (inf)
- (6) *K'oči-k čind-um-s.*
 man-ERG sneeze-TH-I3SG
 'The man sneezes.' (inf)
- (7) *Sum bozo m-ul-u-nan.*
 three girl PV-come-TH-I3.PL
 'Three girls are coming.' (K'93.119)

Ergative intransitive subjects are animate, while many absolutive intransitive subjects are inanimate. Some examples are given below. The marker *i-* which appears in some of these verbs indicates middle voice.

<i>yveck</i> '-	'croak'	<i>mko</i> -	'yawn'
<i>i-bgar</i> -	'cry'	<i>murmol</i> -	'(bear) growl'
<i>i-zicin</i> -	'laugh'	<i>p'et'el</i> -	'bleat'
<i>k'arč'al</i> -	'cluck'	<i>xirxin</i> -	'neigh'
<i>k'iy</i> -	'crow'	<i>xrut'in</i> -	'snore'
<i>lal</i> -	'bark'	<i>xval</i> -	'cough'
<i>myo</i> -	'moo'		

Table 3: Some ergative subject intransitive verbs

<i>inanimate subject</i>		<i>animate subject</i>	
<i>čxant</i> '-	'shine'	<i>yur</i> -	'die'
<i>i-čod</i> -	'finish (intr.)'	<i>i-bad</i> -	'grow old'
<i>i-gub</i> -	'cook (intr.)'	<i>i-rd</i> -	'(child) grow'
<i>i-monč</i> '-	'ripen (intr.)'	<i>x</i> -	'sit, be sitting'
<i>i-nck</i> '-	'open (intr.)'	<i>xrock</i> -	'(animal) die'

Table 4: Some absolutive subject intransitive verbs

The comparison of (5) with (1) shows that the alignment of absolutive-S verbs is of the mixed type: S behaves like O with respect to case marking, but it behaves like A with respect to cross-referencing and number agreement. On the other hand, the comparison of (6) with (1) shows that the alignment of ergative-S verbs is accusative: S behaves like A according to case marking, cross-referencing and number agreement. This is summarized in table 5 (NA = number agreement).

Absolutive-S verbs – mixed alignment

Case marking	S = O (absolutive) ≠ A (ergative)
Cross-referencing	S = A (set I) ≠ O (set II)
Number agreement	S = A (triggers NA) ≠ O (does not trigger NA)

Ergative-S verbs – accusative alignment

Case marking	S = A (ergative) ≠ O (absolutive)
Cross-referencing	S = A (set I) ≠ O (set II)
Number agreement	S = A (triggers NA) ≠ O (does not trigger NA)

Table 5: Alignment of absolutive-S and ergative-S verbs

Basic word order is SOV. Word order does not indicate grammatical functions, but rather reflects information structure (see section 5.2).

2.3 1st and 2nd person pronouns

1st and 2nd person pronouns have the same form in the ergative, absolutive and dative cases, as shown in table 6. Demonstratives are used as 3rd person pronouns (see sentences 27 and 40 for examples).

ergative, absolutive and dative:	1 st singular	<i>ma</i>
	2 nd singular	<i>si</i>
	1 st plural	<i>čku</i>
	2 nd plural	<i>tkva</i>

Table 6: 1st and 2nd person pronouns

The alignment of 1st and 2nd person pronouns is thus neutral with respect to case marking (A = O = S). Cross-referencing and number agreement, however, remain accusative. The examples below illustrate the use of the 2nd person singular pronoun *si* in A, O and S functions, respectively.

(8) *Si mu ču-me?*
 2SG what wait-TH
 ‘What are you waiting for?’ (D67.20)

(9) *Ma si e-k-č’op-are.*
 1SG 2SG PV-II2-marry-FUT.11/2SG
 ‘I will marry you.’ (D37.12)

(10) *Si guruni ye-i?*
 2SG donkey be-INT
 ‘Are you a donkey?’ (K’72.144)

Notice that when a 1st or 2nd person affix is co-referent with an NP inflected for core syntactic case, the latter exhibits the case triggered by its function. In sentence (11), for instance, *iri* ‘all’ refers to a 2nd person plural Recipient and takes the dative case:

(11) *Iri-s titotito me-k-č-aten.*
 all-DAT one_to_each PV-II2-give-FUT.1/2PL
 ‘I will give one to each of you.’ (D67.1)

3. Non-derived Ditransitive Verbs

A ditransitive construction can be defined as a construction consisting of a (ditransitive) verb, an Agent, a Recipient and a Theme (Malchukov *et al.* 2007:2). In Laz, the coding properties of ditransitive constructions are as follows. The Agent has the same properties as in monotransitive constructions: it is in the ergative (*usta-muši-k* in example 12) and is cross-referenced by Set I affixes (here *-u*). The Theme is in the absolutive (*tokmaɣi*) and the Recipient in the dative (*beres*). In most occurrences of ditransitive constructions, Set II cross-references the Recipient

(examples 13 and 14). As we will see in section 6, however, the verb ‘give’ allows a human Theme; in that case, Set II may cross-reference the Theme, depending on a person hierarchy. Neither the Theme nor the Recipient can trigger number agreement in the verb, as will be illustrated in section 5.

- (12) *Usta-mušī-k bere-s ar tokmayi ko-me-č-u.*
 master-POSS3SG-ERG child-DAT one mallet PV-PV-give-AOR.I3SG
 ‘His master gave a mallet to the child.’ (D67.XII)

- (13) *Beki miti-k gyay ko-m-č-asen.*
 maybe somebody-ERG food PV-II1-feed-FUT.I3SG
 ‘Maybe somebody will give me food.’ (D67.XX)

- (14) *Xasani-k si mčxui ko-me-k-č-u.*
 Hasan-ERG 2SG sheep PV-PV-II2-give-AOR.I3SG
 ‘Hasan has given the sheep to you.’ (inf)

The term ‘ditransitive’ extends to constructions including arguments whose coding properties are the same as those of the prototypical ditransitive construction, but whose semantic roles differ to some extent from those of the prototypical ditransitive construction, as in (15).

- (15) *Padišahi-k č’ut’a bere-s mut var k’itx-u.*
 sultan-ERG little child-DAT something NEG ask-AOR.I3SG
 ‘The sultan did not ask anything to the youngest child.’ (D37.I)

The Recipient argument has a special syntactic status. Like the core terms A, O and S, it is cross-referenced on the verb, and hence cannot be considered as an oblique. On the other hand, it differs from A, O and S arguments by its dative marking. This suggests recognizing a fourth core syntactic role, which can be symbolized by E (standing for ‘extension to core’), following Dixon and Aikhenvald (2000:3). E arguments can also appear with intransitive verbs (see ex.20b below).

The verbs ‘give’, ‘feed, give (food)’ and ‘ask’ illustrated above belong to the small class of non-derived, lexically specified ditransitive verbs. A further example is *gama-č-* ‘sell’. As can be seen, the verbs ‘give’, ‘feed’ and ‘sell’ use the same root; they differ only with respect to the preverb. Generally, a given verb uses the same preverb throughout its entire paradigm. ‘Give’ is exceptional in that it has two preverbs, *mo-* and *me-*; their use is examined in section 7.

Beside the verbs presented above, some applicative verbs may be considered as synchronically non-derived, inasmuch as they do not have any monotransitive counterpart. This is the case of *u-c’v-* ‘tell something to somebody’ (ex.16; /v/ disappears before a round vowel). There is no such verb as **c’v-*. The monotransitive verb ‘say something’ uses another root (ex.17). The applicative construction is examined in the next section.

- (16) *Mutu var m-i-c’-u.*
 something NEG II1-VALu-tell-AOR.I3SG
 ‘He did not tell me anything.’ (D67.LV)

- (17) *'Var-ya' tk-u cana-k.*
 NEG-QUOT say-AOR.I3SG robin-ERG
 "'No", the robin said.' (Ž.108)

4. The Applicative Derivation

The applicative is a verbal derivation which, when applied to a monotransitive verb, yields a ditransitive verb. Section 4.1 examines the morphosyntax of this derivation and section 4.2, its semantics.

4.1 Morphosyntax

Sentence (18b) illustrates an applicative ditransitive construction. It can be compared with (18a), the corresponding non-derived monotransitive construction. In (18b), case marking of the A and O arguments is the same as in (18a), but the Set II affix cross-references the applicative argument (*bere-mušis* 'his son'), which is marked by the dative case. Furthermore, the verb contains a mark of applicative derivation (*u-*). Neither the object nor the applicative argument can trigger number agreement in the verb (cf. *dušmanepes* 'enemies' and *tipe* 'heads' in 19). The applicative argument, thus, has the same coding properties as the Recipient of non-derived ditransitive verbs.

- (18) a. *Baba-k oxoi do-k'od-u.*
 father-ERG house PV-build-AOR.I3SG
 'The father built a house.' (inf)
- b. *Baba-k bee-mušis oxoi d-u-k'od-u.*
 father-ERG child-POSS3SG-DAT house PV-II3.VAL_u-build-AOR.I3SG
 'The father built a house for his son.' (inf)
- (19) *Bozo-k-ti k'ama-ten*
 girl-ERG-ADD poniard-INSTR
- dušman-epe-s ti-pe u-k'vat-am-t'u.*
 enemy-PL-DAT head-PL II3.VAL_u-cut_off-TH-IMPFT.I3SG
 'The girl cut off the heads of the enemies with a poniard.' (K'93.84)

The morpheme *u-* in (18b) and (19) can be analyzed as a portmanteau indicating both applicative derivation and Set II 3rd person. The applicative marker is segmentable as *i-* when the applicative argument is 1st or 2nd person:

<i>m-i-k'od-u</i>	II1-VAL _u -build-AOR.I3SG	'he built it for me'
<i>g-i-k'od-u</i>	II2-VAL _u -build-AOR.I3SG	'he built it for you'
<i>u-k'od-u</i>	II3-VAL _u -build-AOR.I3SG	'he _i built it for him _j '

To distinguish the applicative marker from the middle marker *i-*, I gloss the former by VAL*u-* (valency marker *u-*) and the latter by VAL*i-* (valency marker *i-*).

The applicative derivation can also apply to intransitive verbs; compare (20a) and (20b). In that case, the verb has two core arguments: a subject and an E argument.

- (20) a. *I-čališ-i!*
 VAL*i*-work-IMP
 ‘Work!’ (inf)
- b. *Sum c’ana-s ma m-i-čališ-i!*
 three year-DAT 1SG II1-VAL*u*-work-IMP
 ‘Work for me for three years!’⁶ (Ž.27)

Verbs containing the marker *u-* may be lexicalized, as in *gy-u-škv-* ‘swallow’, which takes no applicative argument:

- (21) *Mgey-epe-k puži-š xorci k’ala bere-ti gy-u-škv-es.*
 wolf-PL-ERG cow-GEN meat with child-ADD PV-II3.VAL*u*-swallow-AOR.I3.PL
 ‘The wolves swallowed the cow’s meat and the boy.’ (D67.2)

Usually, the term *applicative* is used in languages where the applicative argument is promoted to object position (Peterson 2007:39). This is not the case in Arhavi Laz: in this variety, the object is in the absolutive, while the applicative argument is in the dative.⁷ Some authors, however, have extended the notion of applicative to include non-canonical applicative mechanisms (see e.g. Dixon and Aikhenvald 2000:15). I retain this solution.

The Laz dialect spoken in Ardeşen has lost the dative and ergative cases (Dumézil 1972:32; Kutscher 2001:11). As a consequence, neither the applicative argument nor the object are case-marked. In this variety, then, the applicative construction is closer to a prototypical applicative. Compare in this respect (22a), taken from Ardeşen Laz, with (22b), from Arhavi Laz.

- (22) a. Ardeşen dialect
- Mtuti arkadaši-muši uži k-el-u-d-u.*
 bear friend-POSS3SG ear PV-PV-II3.VAL*u*-put-AOR.I3SG
 ‘The bear applied his ear on his friend.’ (D72.4)

⁶As we see in this example, the dative may be used to form adjuncts: *sum c’ana-s* ‘three years’, *oxoi-s* ‘at home’, etc.

⁷As a consequence, the applicative derivation does not transitivize intransitive verbs. The verb in (20b) is considered here as intransitive.

b. Arhavi dialect

Mtuti-k arkadaši-muši-s uži el-u-d-u.
 bear-ERG friend-POSS3SG-DAT ear PV-II3.VALu-put-AOR.I3SG
 ‘The bear applied his ear on his friend.’ (D72.4)

Additional examples of applicative ditransitive verbs in the Arhavi dialect are listed below (the element before *u-* is a preverb).

<i>gy-u-nk’ol-</i>	‘close (the door) on sb’
<i>n-u-č’ar-</i>	‘write sth to sb’
<i>u-č’-</i>	‘sew sth for somebody’
<i>u-gub-</i>	‘cook sth for sb’
<i>u-tx-</i>	‘spin sth for somebody’
<i>u-žir-</i>	‘find sth for sb’
<i>y-u-č’op-</i>	‘buy sth for sb’

Table 7: Derived (applicative) ditransitive verbs

The monotransitive verb corresponding to *m-u-γ-* ‘bring something to somebody’ is a middle verb (it takes the valency marker *i-*). Compare the following two examples:

(23) a. monotransitive (middle)

Oxorža-k porča ko-mo-i-γ-u.
 woman-ERG dress PV-PV-VALi-bring-AOR.I3SG
 ‘The woman brought the dress.’ (Ž.89)

b. ditransitive (applicative)

Ar orč’ay k’oči-k oxorža-muši-s
 one from_Orč’i man-ERG woman-POSS3SG-DAT

yali m-u-γ-u-doren.
 mirror PV-II3.VALu-bring-AOR.I3SG-EVD
 ‘A man from Orč’i brought a mirror to his wife.’ (D67.38)

Corresponding to *u-yon-* ‘take somebody to somebody’, we find both a middle and a plain monotransitive verb. There seems to be no difference in meaning between the two:

(24) a. monotransitive (plain)

Bere mend-o-yon-es.
 child PV-VALo-take-AOR.I3.PL
 ‘They took the child.’ (Ž.13)

- b. monotransitive (middle)

Bič'i-ti mend-i-yon-es.
 boy-ADD PV-VALi-take-AOR.I3.PL
 'They took the boy too.' (Ž.50)

- c. ditransitive (applicative)

Padišahi-š bere-s mend-u-yon-u.
 sultan-GEN child-DAT PV-II3.VALu-take-AOR.I3SG
 'He took her to the sultan's son.' (D67.VIII)

The verbs formed on the roots *-y-* and *-yon-* differ as to the semantics of the Theme: *-y-* is used with a Theme which cannot move by itself and *-yon-* with a Theme which can move by itself (an animate being, but also a car, a boat, or water flowing through a canal). There is thus an opposition between *ont'uleša ck'ai komoiyi* 'bring water to the field (for instance in a bottle, for me to drink)' and *ont'uleša ck'ai komoyoni* 'let the water come to the field (through the canal)' (examples from my informant).

4.2 Semantics

The applicative in *u-* expresses different types of beneficiary: 'plain beneficiary' (do something to amuse/please somebody), 'deputative beneficiary' (do something in somebody's place) and 'recipient beneficiary' (create something and give it to somebody) (Van Valin and LaPolla 1997:384). These various beneficiaries are illustrated below.

- (25) Plain beneficiary

Hasteri biyapa-ti u-bir-am-s...
 such song-ADD II3.VALu-sing-TH-I3SG
 'And she sings for him such a song...' (Ž.124)

- (26) Deputative beneficiary

Mo-m-č-i do ma do-g-i-naxv-a-ya.
 PV-II1-give-IMP and 1SG PV-II2-VALu-wash-OPT-QUOT
 'Give me (the linens), I will wash it for you.' (D67.7)

- (27) Recipient beneficiary

Bozo-k xe-muši-te hentepe-s k'ahve d-u-gub-um-s.
 girl-ERG hand-POSS3SG-INSTR DEM.PL-DAT coffee PV-II3.VALu-boil-TH-I3SG
 'The girl makes coffee for them with her own hands.' (D37.11)

The applicative argument can also have the semantic role of maleficiary (ex.28) and allative (ex.29).

- (28) *K'ui g-i-ntxo-es nek'na-s tudele.*
 hole II2-VALu-dig-AOR.I3.PL door-DAT under
 'They have dug a hole under the door (for you to fall in it).' (K'72.128)
 (lit. 'they have dug you a hole under the door')

- (29) *K'at'a toma-s onck'ialon-epe ko-n-u-k'id-i!*
 each hair-DAT bell-PL PV-PV-II3.VALu-hang-IMP
 'Tie a bell to each hair!' (Ž.25)

Example (29) shows that in Laz, the applicative construction is not restricted to human beings, as it is in other languages (Polinsky 2005).

Eventually, the applicative argument may have the semantic role of possessor. In (30), the 2nd person cross-referencing prefix refers to the possessor of *bee* 'child'.

- (30) *Bee mi-k g-i-il-u-ya?*
 child who-ERG II2-VALu-kill-AOR.I3SG-QUOT
 'Who killed your child?' (K'72.129)

Such examples can be analyzed as external possessor constructions (or 'possessor raising' constructions): the possessor is expressed as an independent argument instead of appearing as a genitive NP modifying the possessed NP.

5. Object Properties and Alignment Types

5.1 Introduction

Originally, the notion of alignment was applied to the comparison of the properties of the S argument with those of the A and O arguments. Subsequently, it was extended to the analysis of ditransitive constructions (Dryer 1986, Croft 1990:100-108). According to Malchukov *et al.* (2007:3), "The most salient way in which the encoding of transitive and ditransitive constructions differs across languages is captured by the notion of alignment". Ditransitive alignment refers to the comparison of the coding and behavioral properties of the Theme (T) and Recipient (R) of the ditransitive construction with those of the object of the monotransitive construction (O). In the *indirective* alignment, the Theme is treated like the O and differently from the Recipient (O = T ≠ R). This alignment type is found in German, as illustrated by (31a-b). The Theme, like the monotransitive object, is in the accusative case; the Recipient is in the dative.

- (31) a. monotransitive
- Ich aß den Apfel.*
 1SG.NOM ate the.ACC apple
 'I ate the apple.'

b. ditransitive

Ich gab dem Kind den Apfel.
 1SG.NOM gave the.DAT child the.ACC apple
 ‘I gave the child the apple.’

In the *secundative* alignment, the Recipient is treated like the O and differently from the Theme (O = R ≠ T). This alignment type is found in West Greenlandic (Fortescue 1984:193, 88), as shown in (32a-b). The Recipient, like the monotransitive object, is in the absolutive; the Theme is in the instrumental.

(32) a. monotransitive

Piita-p takurnarta.q tuqup-paa?
 Peter-ERG.SG stranger.ABS.SG kill-INT.3SG→3SG
 ‘Did Peter kill the stranger?’

b. ditransitive

(Uma) Niisi aningaasa-nik tuni-vaa.
 (that.ERG) Nisi money-INSTR.PL give-IND.3SG→3SG
 ‘He gave Nisi money.’

In the *neutral* alignment, the O, the Theme and the Recipient are encoded in the same way (O = R = T). This alignment type is found in Dagaare (Bodomo 1997:41-42), as illustrated in (33a-b).

(33) a. monotransitive

O na ngme ma la.
 he FUT beat me FACTUAL
 ‘He will beat me.’

b. ditransitive

O ko ma la a gane.
 he give.PERF me FACTUAL DEF book
 ‘He gave me the book.’

In the following section, I consider the distribution of object properties in ditransitive constructions in Laz and their alignment type, taking into account case marking, cross-referencing, number agreement and two behavioral properties: relativization and promotion to subject position. I consider also the constituent order of ditransitive constructions; this, however, cannot serve as a diagnostic for the alignment.

5.2 Object properties

Case marking

In Laz, with respect to case marking, the Theme behaves like the O and differs from the Recipient: T and O are in the absolutive, while R is in the dative (ex.34a-b).

- (34) a. *Bozo-k bič'i-s ar mack'indi ko-me-č-u.*
 girl-ERG boy-DAT one ring PV-PV-give-AOR.I3SG
 'The girl gave a ring to the young man.' (Ž.77)
- b. *Bozo-k k'inči žir-om-s.*
 girl-ERG bird see-TH-I3SG
 'The girl sees the bird.' (inf)

Thus, with respect to case marking, the alignment is indirective (O = T ≠ R).

Cross-referencing

In ditransitive constructions, human Themes do not occur frequently; for this reason, the Theme is most often 3rd person. I consider here such cases. Constructions with a 1st or 2nd person Theme are examined in the next section.

In a ditransitive construction with a 3rd person Theme, the Recipient behaves like the O: both are cross-referenced by Set II affixes, as shown in (35a-b). The Theme, on the other hand, is not cross-referenced.⁸

- (35) a. *Bozo-k ma m-žir-om-s.*
 girl-ERG 1SG II-see-TH-I3SG
 'The girl sees me.' (inf)
- b. *Xoža-k ma mo-m-č-u kart'ali.*
 hoja-ERG 1SG PV-II-give-AOR.I3SG letter
 'The hoja gave me a letter.' (Ž.9)

This corresponds to a secundative alignment (O = R ≠ T).

Number agreement

As far as number agreement is concerned, there is no contrast between the monotransitive object, the Theme and the Recipient: neither of them triggers number agreement (when 3rd person). This is illustrated in (36-38).

⁸Since, for a 3rd person Theme, the marker would be zero (see table 2), one could object that there is no way to know if the Theme is cross-referenced or not. However, even in cases where both the Theme and the Recipient could be overtly cross-referenced, only one of them is. See the examples in section 6.

(36) No number agreement with the monotransitive object

- a. *Bozo-k bič'i zi-om-s.*
 girl-ERG boy see-TH-I3SG
 'The girl sees the boy.' (inf)
- b. *Bozo-k bič'-epe zi-om-s.*
 girl-ERG boy-PL see-TH-I3SG
 'The girl sees the boys.' (inf)

(37) No number agreement with the Recipient

- a. *Bozo-k bič'i-s ar mack'indi ko-me-č-u.*
 girl-ERG boy-DAT one ring PV-PV-give-AOR.I3SG
 'The girl gave a ring to the young man.' (Ž.77)
- b. *Bozo-k bič'-epe-s ar mack'indi ko-me-č-u.*
 girl-ERG boy-PL-DAT one ring PV-PV-give-AOR.I3SG
 'The girl gave a ring to the young men.' (inf)

(38) No number agreement with the Theme

- a. see (37a)
- b. *Bozo-k bič'i-s mack'ind-epe ko-me-č-u.*
 girl-ERG boy-DAT ring-PL PV-PV-give-AOR.I3SG
 'The girl gave rings to the young man.' (inf)

With respect to number agreement, the alignment is thus neutral (O = R = T).

Relativization

Example (39b) shows that the monotransitive object can be relativized.

- (39) a. *Izmože žir-u.*
 dream see-AOR.I3SG
 'He had a dream.' (D67.IV)
- b. *[[na-žir-u] izmože]*
 SUB-see-AOR.I3SG dream
 'the dream that he had' (D37.V)

In the ditransitive construction, both the Theme and the Recipient can be relativized. Examples (40b) and (41b) illustrate the relativization of the Theme with an applicative verb and a non-derived verb, respectively. The corresponding independent clauses are illustrated in the (a) examples.

(40) applicative verb

a. Nuri-s a oxoi do-b-u-k'od-i.
 Nuri-DAT one house PV-II-II3.VALu-build-AOR
 'I've built a house for Nuri.' (inf)

b. *[[Nuri-s-na b-u-k'od-i] oxoi]*
 Nuri-DAT-SUB I1-II3.VALu-build-AOR house
 'the house that I've built for Nuri' (inf)

(41) non-derived verb

a. *Bozo-k jur ntoma ko-me-č-u.*
 girl-ERG two hair PV-PV-give-AOR.I3SG
 'The girl gave him two hairs.' (inf)

b. *[[bozo-k-na me-č-u] jur ntoma]*
 girl-ERG-SUB PV-give-AOR.I3SG two hair
 'the two hairs that the girl had given to him' (D37.VIII)

In (42b) and (43b), the Recipient is relativized.

(42) applicative verb

a. *Baba-k bee-muši-s oxoi d-u-k'od-u.*
 father-ERG child-POSS3SG-DAT house PV-II3.VALu-build-AOR.I3SG
 'The father has built a house for his son.' (inf)

b. *[[baba-muši-k oxoi-na d-u-k'od-u] bere]*
 father-POSS3SG-ERG house-SUB PV-II3.VALu-build-AOR.I3SG child
 lit. 'the child for whom his father has built a house' (inf)

(43) non-derived verb

a. *Bee-k bozo-s mack'indi ko-me-č-u.*
 child-ERG girl-DAT ring PV-PV-give-AOR.I3SG
 'The child gave the ring to the girl.' (inf)

b. *[[bee-k-na mack'indi me-č-u] bozo]*
 child-ERG-SUB ring PV-give-AOR.I3SG girl
 'the girl to whom the child gave a ring' (inf)

Here again, then, the alignment is neutral (O = R = T): the O, the Theme and the Recipient can all be relativized.

Promotion to subject position

The transitive object can be promoted to subject position by the verbal derivation in *i-*:

- (44) a. *Bozo-k nek'na ge-nk'ol-um-s.*
 girl-ERG door PV-close-TH-I3SG
 'The girl closes the door.' (inf)
- b. *Nek'na ge-i-nk'ol-e-n.*
 door PV-VALi-close-TH-I3SG
 'The door closes.' (inf)

In (44b), the verb with *i-* has an anticausative reading. Verbs marked by *i-* may have other readings, such as autocausative, autobenefactive and facilitative, all of which can be subsumed under the label 'middle' (in the sense of Kemmer 1993). In addition, verbs with *i-* may have a passive and an antipassive reading. For further details on this derivation, see Lacroix (to appear (b)).

In a ditransitive construction, the Theme can be promoted to subject position, in contrast to the Recipient. Consider example (45), which involves the applicative verb *el-u-k'at-* 'have sb go with/join sb' (from Turkish *kat-*).

- (45) *Baba-k bere-muši Xasani-s el-u-k'at-u.*
 father-ERG child-POSS3SG Hasan-DAT PV-II3.VALu-join-AOR.I3SG
 'The father had his son go with/join Hasan.' (inf)

The Theme of sentence (45) can be promoted to subject position by means of the middle derivation (ex.46). We see that the verb takes the valency marker *a-*, which indicates that it is simultaneously middle and applicative. In this example, the verb has an autocausative reading. Promoting the Recipient in (45) (*Xasanis*) to subject position is not possible.

- (46) *[Bere-s] [padišahi-š bere-ti] el-a-k'at-u-doren.*
 child-DAT sultan-GEN child-ADD PV-VALa-join-AOR.I3SG-EVD
 'The sultan's child too joined the child.' (D67.I)

This point is further illustrated by the following example, which involves the non-derived verb 'give'. The Theme 'she' has been promoted to subject position.

- (47) *Hemu-s n-i-č-ase.*
 DEM-DAT PV-VALi-give-FUT.I3SG
 'She will be given to him.' (K'93.122)

Table 8 schematizes the argument structure of the verbs in (45-46).

	<i>x</i>	<i>y</i>	<i>z</i>
applicative construction (ex.45)	A	O	E
middle-applicative construction (ex.46)		S	E

Table 8: Argument structure of *u-k'at-* 'x joins y to z' and *a-k'at-* 'y joins z'

With respect to promotion to subject position, the alignment is thus indirective: O = T (can be promoted) ≠ R (cannot be promoted).

The alignment of the ditransitive construction, then, shows a mismatch between case marking and promotion to subject (both indirective), cross-referencing (secundative), number agreement and relativization (both neutral). For such cases of mismatch between different properties, Malchukov *et al.* (2007:7) use the term *mixed alignment*.

1st and 2nd person pronouns

Recall that 1st and 2nd person pronouns have the same form in the ergative, absolutive and dative cases. Consider examples (48a-c). In (48a), the 1st person singular pronoun *ma* functions as the object of a monotransitive construction; in (48b), it functions as the Recipient of a ditransitive construction and in (48c), as the Theme.

- (48) a. monotransitive O

Ma *ko-m-zir-u.*
 1SG PV-III-see-AOR.I3SG
 'He saw me.' (D67.55)

- b. Recipient

Xoža-k ma mo-m-č-u kart'ali.
 hoja-ERG 1SG PV-III-give-AOR.I3SG letter
 'The hoja gave me a letter.' (Ž.9)

- c. Theme

Ma *ha bere-s ko-me-m-č-i!*
 1SG DEM child-DAT PV-PV-III-give-IMP
 'Give me to that boy!' (Ž.15)

Thus, 1st and 2nd person pronouns display neutral alignment (O = T = R).

Constituent order

Basic constituent order is SOV:

- (49) *Bere-k ocxož me-tk'oč-u.*
 child-ERG comb PV-throw-AOR.I3SG
 'The boy threw the comb.' (D37.1)

According to the information structure, constituent order may undergo modifications. The main regularity is that topicalized terms are fronted (ex.50), and focalized terms occur in immediate preverbal position (ex.51).

- (50) *Nana-čkuni-a ar zengini-k n-i-xir-u-ya.*
 mother-POSS1PL-QUOT one rich-ERG PV-VALi-steal-AOR.I3SG-QUOT
 ‘Our mother, a rich man took her away.’ (Ž.54)

- (51) *Hac’i-škule nana-skani ma b-ore.*
 now-after mother-POSS2SG 1SG I1-be
 ‘From now on, I am your mother.’ (D67.11)

In a ditransitive construction, the most frequent orders are Agent-Theme-Recipient-Verb and Agent-Recipient-Theme-Verb. In general, the order is Theme-Recipient with definite Themes, and Recipient-Theme with indefinite Themes.

Definite T (T–R order)

- (52) *Avži-k ha vesiyeti oxorža-muši-s ko-me-č-u-doren.*
 hunter-ERG DEM will woman-POSS3SG-DAT PV-PV-give-AOR.I3SG-EVD
 ‘The hunter gave this will to his wife.’ (D67.1)

- (53) *Bere-k zabun doxtori-s mend-u-yon-u-don.*
 child-ERG sick_person doctor-DAT PV-II3.VALu-bring-AOR.I3SG-EVD
 ‘The boy took the sick person to the doctor.’ (D37.7)

Indefinite T (R–T order)

- (54) *Bozo-k kčini-s jurnečdovit altun ko-me-č-u.*
 girl-ERG old_woman-DAT fifty golden_coin PV-PV-give-AOR.I3SG
 ‘The girl gave fifty golden coins to the old woman.’ (D37.7)

- (55) *Bere-muši-s ar beyi-ši bozo ko-me-č-u.*
 child-POSS3SG-DAT one bey-GEN girl PV-PV-give-AOR.I3SG
 ‘He gave the girl of a bey to his son.’ (Ž.14)

Constituent order does not give any information relative to alignment, since both the Theme and the Recipient are placed between the subject and the verb, as is the monotransitive object.

6. 1st and 2nd Person Themes and the Person Hierarchy

So far, I have examined ditransitive constructions involving a 3rd person Theme. Constructions with a 1st or 2nd person Theme are rare. In my corpus, they occur primarily with the verb ‘give’. When taking a human Theme, this verb generally means ‘marry (a girl) to somebody’. With this

verb, Set II cross-referencing is sensitive to the person hierarchy $1^{\text{st}} > 2^{\text{nd}} > 3^{\text{rd}}$: of the Theme and the Recipient, the one which stands higher on the hierarchy is indexed; the other is not. Examples (56a-b) show that when the Theme and the Recipient are 1^{st} and 3^{rd} person, the verb cross-references the 1^{st} person, whichever semantic role it has: Recipient in (56a), Theme in (56b) (‘>’ means ‘wins over, for cross-referencing’). (57) shows that when the Theme and the Recipient are 2^{nd} and 3^{rd} person, the verb cross-references the 2^{nd} person, whichever semantic role it has. Finally, (58) shows that when the Theme and the Recipient are 1^{st} and 2^{nd} person, the verb cross-references the 1^{st} person, whichever semantic role it has. Since Set II 3^{rd} person is not overtly marked with the verb ‘give’, no hierarchy is involved when both the Theme and the Recipient are 3^{rd} person.

- (56) a. 1^{st} Recipient > 3^{rd} Theme

Ck'ar mo-m-č-i!
 water PV-III1-give-IMP
 ‘Give me some water!’ (D37.8)

- b. 1^{st} Theme > 3^{rd} Recipient

Ma ha bere-s ko-me-m-č-i!
 1SG DEM child-DAT PV-PV-III1-give-IMP
 ‘Give me to this boy!’ (Ž.15)

- (57) a. 2^{nd} Recipient > 3^{rd} Theme

Puži ko-me-k-č-are.
 cow PV-PV-II2-give-FUT.I1/2SG
 ‘I will give you a cow.’ (Ž.6)

- b. 2^{nd} Theme > 3^{rd} Recipient

Hemu-s me-k-č-are.
 DEM-DAT PV-II2-give-FUT.I1/2SG
 ‘I will give you to him.’ (Ž.89)

- (58) a. 1^{st} Recipient > 2^{nd} Theme

Baba-skani-k si ma va mo-m-č-ase.
 father-POSS2SG-ERG 2SG 1SG NEG PV-III1-give-FUT.I3SG
 ‘Your father won’t give you to me.’ (inf)

- b. 1^{st} Theme > 2^{nd} Recipient

Baba-k var me-m-č-am-s.
 father-ERG NEG PV-III1-donner-TH-I3SG
 ‘My father won’t give me to you.’ (D37.7)

Sentences (56b), (57b) and (58b) are among the rare examples of ditransitive construction where the Theme, not the Recipient, is cross-referenced. In elicitation, when asked to translate “my

father won't give me to you", speakers give both the forms *me-m-č-asen* (PV-II1-give-FUT.I3SG) and *me-k-č-asen* (PV-II2-give-FUT.I3SG). In the latter case, the Recipient is cross-referenced. It should be noted that example (58b), where the Theme is cross-referenced, comes from a spontaneous text.

In almost all languages where person-marking on the verb depends on a person hierarchy, the latter concerns the marking of the A and O arguments. One exception to have been pointed out in the literature is Jamul Tiipay, a Yuman language, where the person hierarchy determines the marking of the Recipient and Theme of ditransitive constructions (Miller 2001:162-163). In Jamul Tiipay monotransitive verbs, a set of prefixes simultaneously mark the subject and the object. In ditransitive verbs, the same set of prefixes mark the subject and either the Theme or the Recipient, depending on which one is higher on the person hierarchy $1^{\text{st}} > 2^{\text{nd}} > 3^{\text{rd}}$. This is illustrated by examples (59)-(61). Jamul Tiipay is the only language with such an agreement pattern to be cited by Siewierska (2004).

- (59) a. 1^{st} Recipient $>$ 3^{rd} Theme
Puu-ch xiikay nye'-iny-x-a.
 that_one-SJ some 3/1-give-IRR-EMP
 'He will give me some.'
- b. 1^{st} Theme $>$ 3^{rd} Recipient
Nye-famiil nye-shke'mak...
 ALI-family 3/1-take_from
 'They took me away from my family...'
- (60) a. 2^{nd} Recipient $>$ 3^{rd} Theme
Xiikay ny-iny-ma.
 some 1/2-give-PROM
 'I'll give you some.'
- b. 2^{nd} Theme $>$ 3^{rd} Recipient
Nyaach maap Goodwill ny-iny-x.
 I+SJ you+ABS Goodwill 1/2-give-IRR
 'I'm going to give you to Goodwill.'
- (61) 1^{st} Theme $>$ 2^{nd} Recipient
Nye-shke'mak ny-a'aam-x w-i.
 3/1-take_from 3/1-take_from-IRR 3-say
 'She said she would take me away from you.'

The analysis of person marking in Jamul Tiipay in terms of a person hierarchy is called into question by Haspelmath (2007): "Moreover, it is not clear that the Jamul Tiipay construction falls under the definition of 'inverse' that was given in §4.1 ('a coding pattern is called '(direct/) inverse' if the coding of the R and T arguments depends on their relative positions on the person scale ($1^{\text{st}}/2^{\text{nd}} > 3^{\text{rd}}$)). In Jamul Tiipay, the rule seems to be that any 1^{st} or 2^{nd} person object (whether R or T) is indexed on the verb, while no 3^{rd} person object is indexed on the verb. Thus, no reference to the relative positions of the two arguments is necessary in this case" (p.93-94).

This leads Haspelmath to claim that verb-marked person-role inverses have been found in monotransitive constructions only (p.92). However, example (61) apparently contradicts Haspelmath's analysis: here, both the Recipient and the Theme are speech-act participants, but only the 1st person Theme is cross-referenced, which has clearly to do with a person hierarchy.

Laz and Jamul Tiipay, then, appear to be exceptional in that their sensitivity to the person hierarchy 1st > 2nd > 3rd concerns not the indexing of the A and O arguments, but that of the T and R arguments.

7. The Alternating Preverbs *me-/mo-* and Direct/Inverse Marking

Another interesting property of the verb 'give' in Laz is the alternation between the preverbs *me-* and *mo-*, which is determined by the person of the Recipient: *me-* is used when the Recipient is 2nd or 3rd person and *mo-* when it is 1st person (see ex.56-58). *Me-* and *mo-* belong to the class of preverbs used to derive lexical items (see section 2.1); *mo-* indicates a movement toward the reference point (*mo-bulur* 'I am coming') and *me-* a movement away from the reference point (*me-bulur* 'I am going'). With the verb 'give', however, *mo-* and *me-* do not form two different lexemes, but alternate in the same paradigm.

Cross-linguistically, the expected situation in ditransitive constructions is for the R to be higher on the person hierarchy than the T. In Laz, when the R is higher than the T on the 1>2/3 person hierarchy, the preverb *mo-* is used. That is, *mo-* marks the expected situation; it can thus be compared to a direct marker. When the R is lower on the 1>2/3 person hierarchy, *me-* is used, which can thus be compared to an inverse marker. Note that the preverbs do not distinguish between 2nd and 3rd person Recipients.

Furthermore, as direct/inverse markers, *mo-* and *me-* disambiguate the roles of the participants. In a form such as *ko-me-m-č-i* 'give me to him' (ex.56b), the 1st person prefix *m-* does not tell whether the 1st person participant is the T or the R. Since the preverb *me-* indicates that the R is 2nd or 3rd person, the prefix *m-* can only refer to the T. Note that the preverbs do not disambiguate all the forms: *me-k-č-are* (ex.57) means both 'I'll give it to you' and 'I'll give you to him'.

Mo- and *me-* are orientation-marking preverbs. Cross-linguistically, orientation-marking expressions happen to be one attested source for the development of direct/inverse markers (DeLancey 2001).

8. Inversion and Recipient Demotion

The 'inversion' construction characterizes the four South Caucasian languages. It has been much discussed, in particular with respect to Georgian (see among others Harris 1981). In the inversion construction, the subject appears in the dative case and is cross-referenced by Set II affixes. Consider the following examples, which illustrate this construction in Laz. The verb is in the potential derivation, marked by the valency prefix *a-*. The (non-canonical) subject is in the dative case (*mitis* 'nobody' in 62) and is indexed by a Set II affix (*m-* in 63). The dative-marked argument can be considered as a subject on the basis of the fact that it shares several properties with the transitive subject (see Lacroix 2009:§11.2). In particular, it triggers number agreement (ex.64b).

(62) *Miti-s var a-ʒir-u mack'indi-muši.*
 somebody-DAT NEG VALa-find-AOR.I3SG ring-POSS3SG
 'No one could find her ring.' (Ž.95)

(63) *K'oč var m-a-ʒir-u.*
 man NEG II1-VALa-find-AOR.I3SG
 'I could not find anybody.' (D37.2)

(64) a. *K'oči-s čxomi var a-č'op-u.*
 man-DAT fish NEG VALa-take-AOR.I3SG
 'The man could not catch fish.' (inf)

b. *K'oč-epe-s čxomi var a-č'op-es.*
 man-PL-DAT fish NEG VALa-take-AOR.I3.PL
 'The men could not catch fish.' (inf)

In Laz, a verb cannot simultaneously take two core arguments in the dative case, nor can it cross-reference two independent arguments by Set II affixes. When a ditransitive verb undergoes potential derivation, two arguments are candidate to be marked by the dative case and cross-referenced by Set II affixes: the (non-canonical) subject and the Recipient. This conflict is resolved by demoting the Recipient, which is encoded as an allative oblique and thus is not indexed on the verb (ex.65).

(65) *Bič'-epe-s xoža-še mutu var a-tkv-es.*
 boy-PL-DAT hoja-ALL something NEG VALa-say-AOR.I3.PL
 'The boys couldn't say anything to the hoja.' (Ž.83)

Apart from the potential derivation, which is highly productive, the inversion is found in three tenses (perfect, pluperfect and evidential pluperfect) and with a small set of non-derived verbs. Example (66) illustrates the verb 'give' in the perfect. The 2nd person Recipient appears as an allative oblique (*skan-da*) (the allative suffix has a special form with 1st and 2nd person pronouns).

(66) *Ma skan-da sum dya en gyai va me-m-i-č-am-u-n.*
 1SG 2SG-ALL three day be.I3SG food NEG PV-II1-VALu-give-EB-TH-I3SG
 'It has been three days that I haven't given any food to you.' (inf)

9. Conclusion

In this paper, I examined the morphosyntactic and lexical properties of ditransitive verbs in Arhavi Laz. We have seen that ditransitive verbs may be non-derived (section 3) or derived by the applicative derivation (section 4). The object properties of the Theme and Recipient in ditransitive construction are summarized in table 9. We can conclude from these data that the alignment type of the ditransitive constructions in Laz is mixed: object properties are distributed on the Theme and the Recipient (section 5).

	case marking	number agr.	Set II CR	relativization	promotion to subj.
monotrans. obj.	absolutive	no	yes	possible	possible
Theme	absolutive	no	no	possible	possible
Recipient	dative	no	yes ^a	possible	impossible
alignment	indirective	neutral	secundative ^a	neutral	indirective

Table 9: Object properties in monotransitive and ditransitive constructions

^a This is the most frequent pattern. In the rare cases where the Theme is human (which happens with the verb ‘give’), cross-referencing is sensitive to the person hierarchy 1>2>3.

Haspelmath (2007:92) states that verb-marked person-role inverses have been found in monotransitive constructions only. In section 6, it was argued that in Laz and Jamul Tiipay, person marking of the Theme and Recipient do depend on a 1st > 2nd > 3rd person hierarchy.

The preverbs *mo-* and *me-* basically mark orientation. Their use with the verb ‘give’ is reminiscent of a direct/inverse marking, although they function according to a 1st > 2nd/3rd hierarchy (section 7). Cross-linguistically, orientation-marking expressions are one attested source for the development of direct/inverse markers.

Finally, we have seen that in the inversion construction, the Recipient must be demoted to an oblique position (section 8).

Abbreviations

ABS	absolutive (West Greenlandic), absolute case (Jamul Tiipay)	NOM	nominative
ACC	accusative	OPT	optative
ADD	additive	PERF	perfective
ALI	alienable	PL	plural
ALL	allative	POSS	possessive
AOR	aorist	PPRF	pluperfect
CR	cross-referencing	PROM	promised future
DAT	dative	PV	preverb
DEF	definite	QUOT	quotative
DEM	demonstrative	SG	singular
EB	expanded basis	SJ	subject case
EMP	emphatic	SUB	subordinator
ERG	ergative	TH	thematic suffix
EVD	evidential	VAL _a	valency marker <i>a-</i> (potential, middle-applicative)
FUT	future	VAL _i	valency marker <i>i-</i> (middle)
GEN	genitive	VAL _o	valency marker <i>o-</i> (transitive and applicative)
IMP	imperative	VAL _u	valency marker <i>u-</i> (applicative, inverse tenses)
IMPFT	imperfect	I	cross-referencing affix of Set I
IND	indicative	II	cross-referencing affix of Set II
INSTR	instrumental	1	1 st person
INT	interrogative	2	2 nd person

IRR	irrealis mood	3	3 rd person
NEG	negation		

References of the examples

D37	Dumézil 1937
D67	Dumézil 1967
D72	Dumézil 1972
K'72	K'art'ozia 1972
K'93	K'art'ozia 1993
Ž	Žyent'i 1938

inf my informants

The number after the full stop refers to the text number. Thus, D37.3 means 'Dumézil (1937), text number 3'.

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