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The verbal suffixes of Wolof coding valency changes and the notion of co-participation

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1. Introduction

This paper is based on the analysis of Wolof valency changing derivations presented in Sylvie Nouguier-Voisin’s PhD thesis –Nouguier-Voisin 2002. The analysis we put forward here is an attempt at elaborating and systematizing some hypotheses concerning the possibility of relations between verb suffixes coding distinct valency changes.

Wolof (the most important language of Senegal, spoken also in Gambia and Mauritania) belongs to the Atlantic branch of the Niger-Congo phylum. Like several other Atlantic languages spoken in Senegal, Wolof differs from most languages of Subsaharan Africa by the absence of tone. Its most salient typological features are:
–a relatively rigid SVOX constituent order,
–a distinction between subjects and objects (without any distinction between transitive and intransitive subjects) involving contrasts in both constituent order and indexation, but no case contrast,
–focus marking by means of verbal inflection,
–in contrast to other Atlantic languages (e.g., Fula), a reduced noun class system,
–a complex system of verb suffixes coding valency changes.

In Wolof, the valency changes systematically coded by means of verb suffixes can be classified into six types: middle, causative, applicative, co-participation (including reciprocal), antipassive, and possessive. Those relevant to the question addressed in this paper are presented with more details in sections 3 and 4.

This list of valency change types calls for the following remarks:
–We call *possessive* a type of valency change systematically coded in Wolof by means of a verbal suffix, whereby an intransitive verb expressing a quality attributed to the referent of the subject is converted into a transitive verb attributing the same quality to the referent of its object, and assigning to the referent of its subject the role of possessor, as in ex. (1).

(1) a. *Woto bi gaaw na*
    car  DEF be fast  PFT.3S
    ‘The car is fast’

    b. *Gaaw-le naa woto*
    be fast-POSS PFT.1S  car
    ‘I have a fast car’
Wolof does not have passive proper, and regularly uses constructions combining object topicalization and subject focalization with a function similar to that fulfilled by passive constructions in other languages; however, some uses of the middle marker -u can be considered as quasi-passive.

Wolof has a middle derivation, but does not use it to code reflexivity in the narrowest sense of this term, and uses rather the noun bopp ‘head’ plus a possessive suffix or determiner in the syntactic role corresponding to the second semantic role assigned to the referent of the subject (For example, in Wolof, as in many languages, ‘I defended myself’ is expressed literally as ‘I defended my head’).

Our concern here is to analyze a puzzling feature of the coding of valency changes in Wolof: as shown by the following chart, in this language, similar valency changes may be coded by different suffixes, and the same suffix may code different valency changes.

<table>
<thead>
<tr>
<th>type of valency change</th>
<th>possible markers</th>
</tr>
</thead>
<tbody>
<tr>
<td>middle</td>
<td>-u</td>
</tr>
<tr>
<td>causative</td>
<td>-e, -al, -le, -lu, -loo</td>
</tr>
<tr>
<td>applicative</td>
<td>-e, -al</td>
</tr>
<tr>
<td>co-participation</td>
<td>-e, -oo, -ante, -ando, -aale</td>
</tr>
<tr>
<td>antipassive</td>
<td>-e</td>
</tr>
<tr>
<td>possessive</td>
<td>-le</td>
</tr>
</tbody>
</table>

The polysemy of the suffix -e is particularly striking. Moreover, the analysis of these suffixes as being monomorphic is justified in a strictly synchronic analysis, but we will present evidence that, in a historical perspective, -le, -lu, -loo, -oo, -ante, -ando and -ale should be analyzed as having originated as morphologically complex markers. And, with the only exception of -lu, their formation seems to have involved an ancient suffix *-e can be suspected to have been involved in their formation. The discussion we present in the following sections centers on the possibility to find a common semantic motivation in the various uses of the suffix -e, and to recognize etymological relations between -e and some of the other suffixes listed above.

2. The notion of co-participation

Before presenting the Wolof data, we devote this section to some clarifications on the notion of co-participation, and to a brief presentation of observations on cross-linguistic manifestations of (different types of) co-participation that we consider relevant to the analysis of the Wolof data.

The notion of co-participation can conveniently be defined as applying to constructions that imply a plurality of participants in the event they refer to without assigning them distinct roles. This definition groups together three types of situations, for which we will use the terms unspecified co-participation, parallel co-participation, and reciprocal co-participation.

In constructions with a meaning of unspecified co-participation, an event involves two or more participants that may assume distinct roles, but the construction by itself leaves open the precise role assumed by some of them, and role recognition crucially relies on lexical and/or pragmatic factors. Constructions with a meaning of parallel co-participation (typically expressed by together in English) imply that two or more participants share the same role, and constructions with a meaning of reciprocal co-participation imply a plurality of participants interacting in such a way that at least some of them assume two distinct roles in their interaction with the others.

Such definitions are necessary, but the linguistic manifestations of the different types of co-participation are not always easy to identify, and shifts are not rare, from one type of co-participation to another, or from co-participation to types of role assignment in which each participant receives a distinct role.
For example, many languages have markers such as English *with*, commonly defined as polysemous, with a comitative meaning and an instrumental meaning, and *comitative > instrumental* is a very common diachronic process. The notion of comitative is commonly defined in a way that makes it equivalent to our notion of parallel co-participation. But the notion of instrumental implies a representation of the event in which each participant explicitly receives a distinct role, and consequently, cannot be included in co-participation. Moreover, the notion of parallel co-participation is too restricted to cover the variety of non-instrumental uses of *with*. For example, *John came with Peter* can indistinctly refer to situations that could be described in a more precise way by sentences such as *John and Peter came together*, *John came and brought Peter with him*, *John came in the car driven by Peter*.

The distinction between abstract meaning and default interpretation provides a possible explanation of such facts. A possible treatment of the polysemy of English *with* is that this preposition has unspecified co-participation as its abstract meaning, and parallel co-participation as its default interpretation. This definition of the meaning of *with* leaves open the possibility that contextual and/or pragmatic factors force interpretations of *with* whereby the noun phrase introduced by *with* represents a participant whose role is more or less distinct from those assumed by the other participants. For example, *A came with B* says nothing about the precise way the entity represented by the term B participates in the event. In the absence of any other indication, the default interpretation will therefore be A and B came together. But the construction by itself does not necessarily imply a meaning of parallel co-participation, even when A and B represent entities of the same type (as in *John came with Peter*). And in sentences in which A and B are necessarily assigned distinct semantic roles, such as *Mary came with her baby (= Mary brought her baby)* and *Mary came with her bicycle (= Mary used her bicycle to come)*, it seems reasonable to posit that the difference in the interpretation is determined by the types of entities denoted by the nominal terms of a construction whose abstract meaning is unspecified participation.

In this perspective, the diachronic shift *comitative > instrumental* is analyzed as involving both the loss of the default interpretation of parallel co-participation and the semanticization of a contextually determined interpretation. The interest of this analysis is confirmed by the fact that, cross-linguistically, the use of comitative markers to code participants with specific roles recoverable from the context, and the tendency to semanticize such uses, are not limited to the expression of an instrumental meaning: some languages use comitative markers to retrieve the demoted subject in passive constructions, and the homonymy between causative markers and comitative markers observed in some languages (e.g., in the Mande language Soso) can be viewed as an evidence that a possible origin of causative constructions is the semanticization of a particular use of constructions whose original meaning was unspecified participation.

It is also interesting to mention here some observations on verbal derivations currently identified as reciprocal in descriptive grammars: derived verb forms used most commonly in a way compatible with the notion of reciprocity often have also more or less marginal uses that cannot be described as reciprocal. Such ‘reciprocal’ verb forms clearly have reciprocity as their default meaning, but can also be used with a meaning of unspecified or parallel co-participation in contexts that exclude a reciprocal interpretation.

For example, Turkish grammars usually designate the verbal suffix -(I)s as ‘reciprocal suffix’, but define its meaning as indicating a reciprocal or mutual action. For example, this suffix has a reciprocal interpretation in *bak-ıs* ‘look at one another’, but with verbs whose argument structure excludes reciprocity, the same suffix indicates parallel co-participation: *kos-uș* ‘run together’, *gül-uş* ‘laugh together’, etc.

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1 In this language, *A ra-faa B* ‘A brought B (= made B come)’, with the causative prefix ra- attached to the verb faa ‘come’, is synchronically distinct from *A faa B ra* ‘A came with B’, with the comitative postposition ra taking B as its complement, but diachronically, these two contructions seem to originate from two different arrangements of the same morphological material.
Another case in point is Tswana. The Tswana verbs derived by means of a suffix -an- are commonly termed reciprocal, and this designation is justified by the fact that, most of the time, they unambiguously convey a reciprocal meaning. But verbs derived by means of a suffix -an- can be encountered also in contexts in which speakers unambiguously interpret them as non-reciprocal. For example, the only possible meaning of bopagana (< bopega ‘take shape’) is ‘fuse together’, ganana (< gana ‘refuse’) is commonly interpreted as ‘disobey’, and in example (2), a reciprocal interpretation of sentence (2a) is not excluded, but this sentence is commonly understood as synonymous with (2b), in which the underived form of batla ‘look for’ combines with lepodisi ‘policeman’ in the role of subject, and legodu ‘thief’ in the role of object.

(2) a. Lepodisi le batlana le legodu
5.policeman SM3:5 look for.RECIPR with 5.thief
abstract meaning: ‘The policeman and the thief refer to two persons participating in an event lexicalized as look for’, preferred interpretation: ‘The policeman is looking for the thief’

b. Lepodisi le batla legodu
5.policeman SM3:5 look for 5.thief
‘The policeman is looking for the thief’

Such observations can easily be accounted for by positing that:
(a) reciprocity is the default interpretation of Tswana reciprocal verbs,
(b) the reciprocal interpretation of Tswana reciprocal verbs can be cancelled by the lexical meaning of the verb, or by pragmatic factors,
(c) the cancellation of the default interpretation of reciprocity results in activating an instruction to go back to the more abstract meaning of co-participation, and to construct an interpretation compatible with the factors that have led to the cancellation of the default meaning.

For example, a reciprocal interpretation of bopagana ‘fuse’ is excluded, since bopega ‘take shape’ has only one semantic role to assign, but a meaning of parallel co-participation (take shape together —> fuse) is easy to imagine.

In the case of ganana ‘disobey’ < gana ‘refuse’, a reciprocal interpretation is not totally excluded, but one usually refuses a proposal, or a thing, not another person, which makes a reciprocal interpretation not very likely.

Finally, in the case of batlana, in principle, a reciprocal interpretation is perfectly possible, and what suggests to cancel it here is that policemen used to look for thieves, but thieves as a rule rather try to avoid policemen.

In Tswana, the interpretation of the reciprocal form of transitive verbs in a construction including a comitative adjunct seems to proceed as follows: the subject is assigned the same semantic role as in the transitive construction of the corresponding non-derived verb, and the recognition of the precise way the referent of the subject interacts with the participant represented by the comitative adjunct relies on lexical, contextual and pragmatic factors, the reciprocal interpretation being only the default interpretation. The example of batlana shows that interpretations of reciprocal verbs whereby a comitative adjunct is assigned the same semantic role as the object of the corresponding non-derived verb are not excluded. This results in uses of the reciprocal derivation of Tswana not very different form those considered typical of antipassive derivations: the only difference between the sentence (2a) and a typical antipassive construction is that the antipassive interpretation of sentence (2a) does not entirely rely on the presence of a particular marker: it is the consequence of a combination of morphological, syntactic and pragmatic factors.

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2 Similar facts have been signalled in other Bantu languages –see Maslova (to appear), Ndayiragiye 2003.
3. Valency changes coded by a suffix -e in Wolof

3.1. Causative -e

The causative use of the suffix -e is limited to a handful of intransitive verbs, for example génn 'go out' > génn-e 'take out' –ex. (3).

(3) a. Génn na ci diggu kër
   go out PFT.S3S LOC yard
   ‘He/she went out in the yard’

   b. Génn-e na guro yu sànkar yépp
      go out-CAUS PFT.S3S cola nut LINK be with worms all
      ‘He/she took out all the cola nuts that had worms’

In Wolof, causative forms of intransitive verbs are productively derived by means of -al (limited to intransitive verbs, and implying a direct involvement of the causer in the caused event) or -loo (compatible with both transitive and intransitive verbs, and carrying a meaning of indirect causation).³

3.2. Applicative -e

In its applicative use, the suffix -e licenses objects with a semantic role of instrument, manner, or location. The other applicative suffix -al is used to license objects with a semantic role of recipient, beneficiary, or companion.⁴ Ex. (4) illustrates the instrumental use of applicative -e, and ex. (5) illustrates the comitative use of -al.⁵

(4) a. Añ nañu ak ceebu jën
    lunch PFT.S3P with rice.CSTR fish
    ‘They lunched with fish and rice’

   b. Ceebu jën lañu añ-e
      rice.CSTR fish FOC.S3P lunch-APPL
      ‘It is fish and rice that they had at lunch’

(5) a. Mu séy ak doomu nijaayam
    S3S get married with child.CSTR uncle.3S
    ‘He married his cousin’

³ The difference in meaning between -al and -oo can be illustrated by minimal pairs such as toog ‘sit (down)’ —> togg-loo / toog-al: togg-loo is appropriate for situations of indirect causation, whereas toog-al implies a physical involvement of the causer in the caused event (for example, when someone handles a chair to another person (s)he invites to sit down).

⁴ Comparison with Buy (an Atlantic language belonging to the same subgroup as Wolof) suggests a merger between two originally distinct suffixes, since Buy distinguishes -ar ‘benefactive’ from -al ‘comitative’ –Doneux 1991: 63-64.

⁵ In these examples, the function of applicative derivation is to make it possible to use a focalizing device from which adjuncts introduced by the preposition ak are excluded, but Wolof has also obligatory applicatives, i.e. cases in which the object licensed by applicative derivation has absolutely no possibility to be constructed as an adjunct of the non-applicative form of the same verb. This occurs in particular with beneficiaries.
b. *Doomu nijaayam la séy-al*  
child.CSTR uncle.3S FOC.S3S get married-APPL  
‘It is his cousin that he married’

3.3 Antipassive -e

The identification of an antipassive derivation in Wolof may surprise, since antipassive derivation is commonly considered as characteristic of ergative languages. The antipassive function of -e in Wolof is certainly not entirely comparable to those assumed by antipassive derivation in ergative languages, but in terms of valency change, in its antipassive use, the suffix -e makes it possible to omit the object of transitive verbs, or the object representing the recipient of ditransitive verbs, without modifying the semantic role assigned to the subject, as in *màtt* ‘bite someone’ > *màtt-e* ‘bite (without mentioning a specific patient)’, or *jox* ‘give something to someone’ > *jox-e* ‘give something (without mentioning a specific recipient)’, which is a function typical of antipassive derivations –ex. (6).

(6) a. *Xaj bii du màtt-e*  
dog DEM NEG.S3S bite-APSV  
‘This dog does not bite’

b. *Alal du jox-e màqaama*  
wealth NEG.S3S give-APSV prestige  
‘Wealth does not give prestige’

This use of -e is possible only with a limited number of transitive verbs constructed with a single object, but is fully productive with ditransitive verbs, in particular with ditransitive verbs derived by means of the applicative marker -al, as in example (7).

(7) a. *Togg naa yàpp wi*  
cook PFT.S1S meat DEF  
‘I have cooked the meat’

b. *Togg-al naa la yàpp wi*  
cook-APPL PFT.S1S O2S meat DEF  
‘I have cooked the meat for you’

c. *Togg-al-e naa yàpp wi*  
cook-APPL-APSV PFT.S1S meat DEF  
‘I have cooked the meat for people’

In the perspective of a reconstruction of the history of the suffixes coding valency changes in Wolof, it is important to keep in mind that, cross-linguistically, specialized antipassive markers are not common in accusative languages, but, irrespective of the distinction between accusative and ergative alignment, middle forms originating from reflexives very commonly develop antipassive as well as passive uses, and derived verb forms interpreted by default as reciprocal may have also antipassive-like uses, as mentioned in section 2.

3.4. Reciprocal -e

With some verbs, the form derived by means of -e expresses a reciprocal meaning. However, this use of -e is not very productive, and can be characterized as limited to the expression of naturally
reciprocal events (i.e., two participant events in which the exchange of roles is not absolutely obligatory, but nevertheless constitutes the normal situation), as in *gis* ‘see’ —> *gis-e* ‘meet’, or *nuyu* ‘greet’ —> *nuyoo* (< *nuyu* + *e*)6 ‘exchange greetings’ —ex. (8).

(8) a. *Nuyu* naa ko  
greet PFT.S1S O3S  
‘I greeted him/her’

b. *Nuyoo* naa ak moom  
greet.RECIPR PFT.S1S with PRO3S  
‘I exchanged greetings with him/her’

In ex. (9), the meaning carried by *-e* cannot strictly speaking be characterized as reciprocal, but it is nevertheless very close to the use of *-e* to code naturally reciprocal events, since in this example, *-e* combines a decausative meaning with a meaning of parallel co-participation: *rax* ‘mix (transitive)’ —> *rax-e* ‘mix together (intransitive)’.

(9)  
*Ceeb* bi dafa *rax-e*  
rice DEF FOC.S3S mix-RECIPR  
‘The rice is mixed’ (i.e., there are both broken seeds and whole seeds in it)

4. Other suffixes possibly related with *-e*

4.1. Causative *-le*

Among the causative suffixes of Wolof, *-le*, homonymous with possessive *-le* that will be dealt with in section 4.2, is specialized in the expression of a particular type of causation, sociative causation, in which the causer is not the only initiator or controller of the event, but crucially contributes to the realization of an event in which the causee takes an active part (‘help someone do something’). Consequently, in sociative causation, the causee is more agent-like than in prototypical causation, and (s)he can equally be viewed as a beneficiary. For example, *xuloo-le* ‘take someone’s side’ < *xuloo* ‘quarrel’ can be paraphrased as ‘take part in a quarrel to the benefit of one of the persons who are quarrelling’ —ex. (10).

(10) a. *Xuloo* nañu  
quarrel PFT.S1P  
‘We quarrelled’

b. *Ba* ñu ko tooñee, *xuloo-le* nañu ko  
when S3P O3S wrong.SUBORD quarrel-SCAUS PFT.S3S O3S  
‘When they wronged him/her, we took his/her side’

In a number of non-related languages, the same derived forms of the verb are used to express ‘make someone do something’ and ‘help someone do something’. In Wolof too, the causative suffixes *-al* and *-lu* can occasionally be found in constructions representing events analyzable in terms of sociative causation, but this is not their central meaning. By contrast, the only possible interpretation of causative *-le* is sociative causation.

The semantic complexity of the role of causee in sociative causative suggests to try to analyze causative affixes specialized in the expression of sociative causation, such as Wolof *-le*, as complex

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6 In Wolof, a morphophonological process *u* + *e* —> *oo* regularly occurs at morpheme boundaries.
markers. Precisely, the semantic analysis of sociative causation suggests to analyze causative -le as a complex marker with applicative -al as its first formant, since an important function of applicative -al is to license direct objects with the semantic role of beneficiary.

From a strictly synchronic point of view, this analysis can hardly be maintained, since -e attests no use that could directly provide an explanation of causative -le as resulting from a combination of applicative -al with -e, but diachronically, it is at least plausible that the origin of causative -le is the combination of applicative -al emphasizing the characterization of one of the protagonists as the beneficiary with a second formant *-e carrying a meaning of co-participation, since such a decomposition reflects a possible semantic analysis of sociative causation. The point is that, in situations analyzable in terms of sociative causation, the causee can be considered as a beneficiary, but a beneficiary that departs from prototypical beneficiaries by his/her active involvement in the event. Consequently, since Wolof has a suffix -e used to code a particular variety of reciprocal situations (see section 3.4), it seems reasonable to assume that this reciprocal -e results from the specialization of an ancient marker *-e conveying a more general meaning of co-participation, whose amalgamation with -al gave rise to causative -le.

4.2. Possessive -le

The possessive verb forms of Wolof are transitive verb forms derived from intransitive verbs. They occur in transitive constructions in which the object receives the semantic role assigned by the non-derived form of the same verb to its subject, and the subject represents the possessor of the referent of the object, as in ex. (1), repeated here as (11).

(11) a. Woto bi  gaaw na
   car DEF be fast PFT.3S
   ‘The car is fast’

   b. Gaaw-le   naa   woto
   be fast-POSS PFT.1S  car
   ‘I have a fast car’

To the best of our knowledge, no other language seems to have been signalled as coding this type of valency change by means of a specialized and unanalyzable marker. But the same result is commonly obtained by means of a combination of applicative derivation and passive derivation: starting from an intransitive construction, applicative derivation creates a transitive construction in which the noun phrase in the syntactic role of object represents a second participant concerned by the implication of the subject in the situation described by the verb, and this object can be subsequently promoted to the role of subject by passive derivation, as in the following example from Tswana.

(12) a. Ngwana  o   lwala thata
   1.child SM3:1 be sick very
   ‘The child is very sick’

   b. Mosadi  yo   o   lwalelw a    ke  ngwana
   1.woman 1.DEM SM3:1 be.sick.APPL.PSV by  1.child
   lit. something like ‘This woman is sick-concerned by a child’, hence ‘This woman has a sick child’.

This strongly suggests that possessive -le originated in Wolof as a complex marker, with applicative -al as its first formant, and with a second formant *-e, at a stage of the evolution of
Wolof when passive was coded by a suffix *-e. Wolof has no direct trace of an ancient *-e used in passive constructions, but evidence supporting this hypothesis can be found in the related language Buy, which has a passive marker -e (Doneux 1991: 62).

4.3. -loo

Causative verbs derived by means of the suffixes -al and -loo have in common that they occur in typical causative constructions, with the causee in the syntactic role of object. As indicated in note 3 above, the difference is that -al is used only to derive causative forms of intransitive verbs, and is semantically limited to direct causation (as in fees ‘be full’ —> fees-al ‘fill’) or joint action, whereas -loo is not limited to intransitive verbs, and semantically implies indirect causation (as in jooy ‘cry’ —> jooy-loo ‘make cry’, or raxas ‘wash (tr.)’ —> raxas-loo ‘make wash’).

Wolof has another causative suffix -lu, used exclusively with transitive verbs, in constructions in which it is impossible to mention the causee. In other words, formally, the verbs derived by means of -lu have the same construction as the transitive verbs from which they derive, but semantically, they differ in that the referent of their subject is presented as having another participant (not mentioned in the construction) acting as the immediate agent, as can be seen from ex. (13).

(13) a. Ñaw naa roob
    sew PFT.S1S dress
    ‘I sewed a dress’

    b. Ñaw-lu naa roob
    sew-CAUS PFT.S1S dress
    ‘I had a dress sewed’

    c. Ñaw-loo naa ko roob
    sew-CAUS PFT.S1S O3S dress
    ‘I had him/her sew a dress’

The form of these three causative suffixes makes it possible to imagine a decomposition of -lu as -al + -u, and a decomposition of -loo as -lu + -e.

Several authors have already proposed to analyze causative -lu as -al ‘applicative-benefactive’ + -u ‘middle’. The validity of this explanation in not obvious, since it implies a semantic shift from do something for oneself to manage to have something done. Some uses of the so-called pronominal forms of Romance verbs suggest the possibility of such a shift,7 but we will not discuss this question further, since it has no direct impact on the matters discussed in this paper.

By contrast, whatever the origin of -lu, there is no difficulty analyzing causative -loo as -lu ‘causative’ + -e ‘applicative’. This hypothesis is fully consistent with the fact that the construction of verbs suffixed with -loo includes one more term (the causee) than the construction of verbs suffixed with -lu; it is consistent also with the instrumental use of applicative -e, since a causee can often be viewed as a kind of instrument: A has B sew a dress can be analyzed as A has a dress sewed owing to B’s work.

4.4. -aale

The meaning carried by the suffix -aale is sometimes a meaning of co-participation that can be rendered in English by together (nekk ‘be somewhere’ > nekk-aale ‘live together’), but this use of

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7 For example, in Spanish, the literal meaning of a sentence such as Me reparé el coche is I repaired my car’, but it is more commonly interpreted as ‘I had my car repaired’.
-aale is marginal and can be considered as lexicalized. In its productive use, this suffix expresses rather a relation of simultaneity between the event represented by the verb and another event (‘at the same time’), which has no obvious relation with verb valency. We have no hypothesis to put forward concerning a possible relation between this suffix and the others examined in this paper.

4.5. -andoo

Parallel co-participation is the central meaning of -andoo; this suffix implies a plurality of participants involved in the same event with the same role, as in ex. (14). A plausible origin of this suffix is the verb ànd ‘go together’, ‘act together’, with a second formant -oo probably identifiable as the suffix -oo presented in the following section.

(14) a. Mu toog ci laal bi
    S3S sit LOC bed DEF
    ‘He/she sat on the bed’

    b. Ñoom ñaar ñepp toog-andoo ci lal bi
    PRO3P two all sit-COPART LOC bed DEF
    ‘They both sat on the bed together’

4.6. -oo

This suffix is sometimes encountered in contexts that force an interpretation of parallel co-participation, but it is more commonly used to express a reciprocal meaning, as in ex. (15).

(15) a. Wor na xaritam
    betray PFT.S3S friend.3S
    ‘He/she betrayed his/her friend’

    b. Seen wax yi wor-oo nañu
    POSS2P word DEF betray-RECIPR PFT.S3P
    ‘Your declarations are contradictory (lit. betray one another)’

Wolof has a middle marker -u, and other languages attest the possibility to code reciprocity by combining a middle marker with a marker of co-participation (or at least with a morphological device typically used crosslinguistically to code a plurality of participants). For example, in Amharic (Amberber 2000), reciprocity is expressed by a combination of the mediopassive prefix ṭā₁ʈ- plus a special reduplicative stem. A plausible origin of reciprocal -oo in Wolof is therefore the combination of middle -u with the ancient marker of co-participation *-e already identified as a probable formant of causative -le, and whose direct reflex would be the suffix -e coding naturally reciprocal events.

4.7. -ante

The suffix -ante provides in Wolof the most productive way to express prototypical reciprocal events in the sense defined in Kemmer (1993:95-127), as illustrated by ex. (16).

(16) a. Rey nañu góor gi
    kill PFT.S3P man DEF
    ‘They killed the man’
b. Rey-ante nañu
    kill-RECIPR  PFT.S3P
    ‘They killed one another’

Given the amount of evidence pointing to an ancient marker of co-participation *-e, it seems plausible that this suffix originated as a complex marker with the same *-e coding co-participation as its second formant. Unfortunately, we have no proposal to put forward in order to explain the origin of the first component of -ante.

5. Conclusion

The data presented in sections 3 & 4 strongly provides evidence that reciprocal -e may be the reflex of an ancient *-e whose possible uses included other varieties of co-participation, and that the amalgamation of this *-e with other markers may have given rise to *-le coding sociative causation, to reciprocal *-oo, and to reciprocal *-ante. Moreover, comparison with other languages in which derived verb forms that generally convey a reciprocal meaning have also antipassive-like uses suggests that antipassive -e might well be a reflex of the same *-e. If our hypothesis concerning possessive -le is correct, a possible relationship between an ancient marker of co-participation *-e and an ancient passive *-e should also be considered, since many languages attest the possibility of middle markers developing both passive and antipassive uses.

A relationship with causative -e should perhaps be considered too, given that comitative constructions are a possible source of causative constructions.

Unfortunately, in the present state of the comparative study of Atlantic languages, it is not possible to confront these proposals with a reconstruction of verbal derivation at the Atlantic level. Moreover, Wolof is relatively isolated within the subgroup of Atlantic to which it belongs, so that a comparison limited to Wolof and some closely related languages is not possible either. However, it is difficult to imagine that chance alone could have resulted in extensive homonymy between so many markers whose meanings are such that semantic developments from a common source are very plausible. Consequently, it is reasonable to think that at least some of the hypotheses presented in this paper are historically valid, and it would certainly be worth retaking this question on the basis of a systematic collection of comparative data on verbal derivation and valency changes in Atlantic languages.

Abreviations

1S, 2S, 3S = 1st / 2nd / 3rd person singular
1P, 2P, 3P = 1st / 2nd / 3rd person plural
3:X = 3rd person, class X (in the glosses of Tswana examples)

APPL = applicative          NEG = negation
APSV = antipassive          O… = object marker
CAUS = causative            PFT = perfect
COPART = co-participation marker
  POSS = possessive
CSTR = construct state      PRO = pronoun
DEF = definite              PSV = passive
DEM = demonstrative         RECIPR = reciprocal
FOC = focalization          S… = subject marker
LINK = linker               SCAUS = sociative causation
LOC = locative              SUBORD = subordination marker
References


