## Offprint

## Winfried Boeder (Oldenburg)

# Protasis and apodosis in the Kartvelian languages* 


#### Abstract

Modern Kartvelian (South Caucasian) languages have both preposed and postposed subordinate clauses. Their subordinator occurs in clause-initial, clause-internal and clause-final position. Preposed subordinated clauses prefer clause-internal and in some cases clause-final subordinators, postposed clauses clause-initial subordinators. The latter are mostly attached to the preceding clause, and the same is the rule for coordinating conjunctions. As a consequence, Modern Kartvelian tends to have a protasisapodosis structure in which the protasis is marked by a subordinating, coordinating or other cataphoric element, and tends to be followed by an unmarked apodosis even in those cases where the subordinator syntactically belongs to the apodosis. This protasis-apodosis structure superficially converges with the sentence structure of languages where subordinate units typically precede their superordinate unit (as in most neighbouring languages of Kartvelian).


It is one of the fundamental tenets of any comparative or typological undertaking that its objects should be comparable. So it is uncontroversial that, for instance, clauses should be compared with clauses in different languages. On a syntactic level, then, a structure like:

$$
\begin{equation*}
\left.[\mathrm{A}]_{\mathrm{s}} \mathrm{~B}\right]_{\mathrm{S}} \tag{1}
\end{equation*}
$$

in one language has to be compared with objects of the same kind in other languages. However, there are cases where a structure like
(2) $\left[\mathrm{A}[\mathrm{B}]_{\mathrm{s}}\right]_{\mathrm{s}}$
becomes comparable to structure (1). Starting from a general structure "A conj B", it is obvious that although the conjunction or any conjunctive means, might belong to either A or B on a syntactic level, the conjunction can belong to the opposite constituent on a different level, for instance on a prosodic level, as in:

$$
\begin{align*}
& {\left[\left[\mathrm{A}\{\text { conj }]_{\mathrm{s}} \mathrm{~B}\right\}\right]_{\mathrm{S}}}  \tag{3}\\
& {\left[\left[\{\mathrm{~A}[\text { conj }\} \mathrm{B}]_{\mathrm{s}}\right]_{\mathrm{S}}\right.} \tag{4}
\end{align*}
$$

where the braces mark non-syntactic, e.g. prosodic, units. (4) is at the root of a reanalysis that has occurred in many European languages, where:
(5) I know that [it is wrong] > I know [ that it is wrong]

* This is an abbreviated and modified version of an earlier article: "Protasis und Apodosis in den Kartvelsprachen", in: Varlam Topuria 100 (Tbilisis Saxelmcipo Universitetti, Pilologiis Pakulteṭi; Sakartvelos Mecnierebata Akademia, Enatmecnierebis Institututi). Tbilisi: Tbilisis Universitetis gamomcemloba 2001, 31-45.

In this case, a prosodic attachment of the cataphoric element to the following clause was accompanied by a syntactic reanalysis, a "Gliederungsverschiebung", as Hermann Paul used to call it. Now let us look at a kind of mirror image of this phenomenon:

Georgian
[Kiziria 1987: 59]
is acuxebdat, rom \# teatrši ver cavidnen
that it.worried.them, SUBORD \# theatre.in not.possible they.went
'This is what worried them that they could not go to the theatre.'
where \# indicates a (possible) pause. The main point of my paper is that in Kartvelian, sentence structures like (2) become similar to structures like (1), for instance on a prosodic level, as depicted in:
(a) $=(1)\left[[\mathrm{A} \text { conj }]_{S} B\right]_{S} \sim$
(b) $=(2)[\{\mathrm{A}[$ conj $\} \mathrm{B}] \mathrm{s}] \mathrm{s}$

To characterise the non-syntactic units as in (3), (4) and (6), I would like to use terms that early grammarians adopted from ancient rhetorics.

The classical theory of composition distinguished three forms of clause: 1) strings consisting of short units (Greek dialyméné léxis, Latin oratio soluta); 2) (paratactic) strings consisting of longer units (Greek eiroménē léxis, Latin oratio perpetua); 3) strings consisting of two units (kôla) (Greek períodos, Latin periodus, ambitus). It is the constituents of the last type of clause combining that we are interested in here: the prótasis forming of a first unit (kôlon) that keeps the listener in suspense according to the addressee-orientated concept of sentence structure, and the apódosis forming the second unit which is "relaxing" for the listener. What makes this terminology useful is its independence of syntactic structure. For instance, the protasis may be a subordinated clause or a coordinated first conjunct, as in:
(8) This explanation is simple,
protasis
but it is not correct.
apodosis

Protasis and apodosis, then, are functional units that are realised by different syntactic, morphological or prosodic means. What these means have in common is that they indicate the incompleteness of the protasis and anticipate the following apodosis.
(9) Georgian (Khevsur)
[Č̣inc̣carauli 1960: 326, 16-17]

| unda | dagrikla-v | čedilai-v, |
| :--- | :--- | :--- |
| it.is.necessary | you.kill(OPT).it.for.us-QUOT | wether-QUot |

romenic msukani-a-o-da kargi-v
which fat-is-Quot-and good-Quot
'You must slaughter a wether for us which is fat and good, they said.'
The simple fact that the clitic quotative occurs before the relative pronoun romenic (literary Georgian romelic), and not after it, unmistakably speaks against its belonging to the preceding matrix clause. But structures of these types are not very frequent in spoken, colloquial forms of the Kartvelian languages.

There are essentially three groups of relevant structures that I will deal with here: (1) and (2) are the protasis plus apodosis structures. In structure (1), the protasis is a subordinate clause, in structure (2), it is a matrix clause or a co-ordinate clause. The miscellaneous structures under (3) have one thing in common: they somehow deviate from structure (2).

1. The sentences of the first group consist of a subordinate protasis followed by a matrix clause apodosis. This is the classical form of a period, and for iconic reasons it is natural with conditional clauses, temporal clauses and causal clauses. The protasis is marked by a conjunction which typically follows its first constituent or the first word with its clitics (VoGT 1975), that is, in Wackernagel's position, as in (10), or in preverbal position, as in (11)
(10) Georgian (Kartlian)
[ImNAIŠvili 1974: 99]
kali ro šua xidze šedga, zaytapirebma dauzaxes woman SUBORD middle bridge-on stood, dog-headed they.called.her 'When the woman stood halfway on the bridge, the dog-headed men called her.'
(11) Svan (Len亏̌er)
[BZ 54, 9]

| [alas] | gar | eser | ži | $\underline{h e}$ | xaskib $[\ldots]$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| [this] | only | QUOT | PREV | $\underline{\text { if }}$ | you.are.satisfied.with.it $[\ldots]$ |
| 'If you will be content with this, |  |  |  |  |  |

In some cases the protasis is resumed by a correlative pronominal, as in:
(12) Svan
[BZ 68,6]

| $\check{c} u$ | $\underline{h e}$ | ätvdagri, | ě̌̌ुa | dem | opšeni |
| :--- | :--- | :--- | :--- | :--- | :--- |
| PREV | if | I.die, | therefore | not | I.will.worry, |

In (9), we had a relative clause following its head noun. But its typical position in informal speech is before its head noun, and with a correlative pronoun in the matrix clause:
Svan
[BZ 389,6]
mič eser er maskäd xäz,
him Quot SUBORD ring she.wears,
ala kāv laxvēm $i$ yo k'ēser laxvedne
this PREV.OPT she.gave.him, and then PREv.QUor she.will.give.it.to.him
'I will give it to you if you give me the ring you are wearing.' (lit. 'he will give it to her if she gives him the ring, she is wearing')
In connection with our problem, it is interesting that one Old Georgian conjunction, raj 'when' occurs either in Wackernagel's position, as in (14), or in clause-final position, as in (15):
(14) Old Georgian
[Šušanikis c̣ameba V,72 apud Marṭirosovi 1959: 269]

| $[\check{s} e]$ | $\underline{r a}$ | vida | igi | ta3arsa | mas $[\ldots]$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| [PREv] | $\underline{\text { when }}$ | she.went | she | sanctuary.to | ART [...] |

'When she went into the sanctuary, $\qquad$
(15) Old Georgian
[Grigol Xan3t. ed. Marr 1911 ch. 9, 12-13 apud Marṭirosovi 1959: 270]
[moc̣apeta twsta upovarebaj ixila raj], miic̣ia ... saxlsa
[disciples his poverty he.saw when], he.went [...] house.to
'When he saw the poverty of his disciples, he went to the house.'
This is also the typical position of Mingrelian subordinators:
(16) Mingrelian
[Qifiš̌i3e 1914: 44,22 apud Abesa3e 1963: 15]
skani samartals iri ḳoči
your justice everybody
ockvansə ni
praises SUBORD
mati skani kariša kəmoprti
I.too your door.to I.came
'Since everybody praises your justice, I came to your door.'
(17) Mingrelian
[Axalaia 1996: 152] mužansət uklašepi tec[a]li ren do, umosepi mu i'ii when younger such are and, older what they.will be 'If the younger people are like that, what will the older people be like?'

Among these clause-final subordinators we also find the interrogative particle $-a$ whose post-verbal position is also known from Old Georgian:

Mingrelian
[Abesa3e 1963: 18]
'udeša kəmortu-o, irpeli raliri koziru
house.in he.came-INTERROG, everything taken.away he.saw
'When he came home, he saw that everything had been taken away.'
Some Georgian dialects mark the protasis by lengthening its last vowel (Lomtatize 1946).

So this is the simple case group, where a subordinate clause - sometimes with a final conjunction - precedes the matrix clause.
2. The second case group consists of examples where the protasis is not a subordinate clause. Some analysts of Georgian intonation (Tevdoraje 1978, cf. Boeder 1982: 385; Ležava 1981; Kiziria 1987, 1992; Arabuli 2001) point out that conjunctions occurring between protasis and apodosis are most naturally followed by a pause, and this is indeed the position where unattentive or uneducated Georgians put a comma - contrary to what they were taught in school:

1) Protasis and apodosis coordinated
(19a) Georgian
[Tevdora3e 1978: 78]
çimam gadaiyo magram \# mze ar čanda
rain it.cleared.up but \# sun not it.appeared
'The rainy weather cleared up, but the sun did not appear.'
(19b) çimam gadaiyo \#magram mze ar čanda
2) Protasis: matrix clause, apodosis: subordinate clause
(20a) Georgian
[Tevdora3e 1978: 46]
me mašinve\# karebi mivxure rom\# zaylebi\# sin ar
I immediately\# doors I.closed.them SUBORD\# dogs\# in not
šehq̆olodnen
followed
'I immediately closed the door to prevent the dogs from coming in, too.'
(20b) me mašinve\# karebi mivxure\# rom\# zaylebi\# šin ar šehq̇olodnen

After the use of correlatives, a pause before the conjunction seems to be unnatural:
Georgian
[Kızıria 1987: 60]

| iseti |  | $i \stackrel{q}{o}$, | rom \# |  | $a r$ | n |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| such | weather | was, | that \# | dog | not | they.put.it | outsi |

'The weather was such that they did not turn the dog out of the house.' *iseti amindi iqo, \#rom\# 3ayls ar gaagdebdnen garet (ib.)

The same is true for Mingrelian:
(22) Mingrelian
xençipeša apu močineli namuda tito koči
king.to he.had sent.message that, each man daxvamiluas - ate merčkineli adgilsie he.should.make.meet.him this appointed place.at.Quot 'He had sent a message to the king that he should send each man to meet him at the appointed place.'

The reality of this attachment to the preceding clause is confirmed by two other phenomena. Firstly in poetry, the conjunction often occurs in a segment-final position (see now Arabuli 2001):
(23) Mingrelian
[Gudava 1975: 51]
dyašit vinc̣valebuku do | serit vare čkimi ruli
by.day I.am.tormented and | by.night not.is my sleep
'I am tormented by day, and | I cannot sleep by night.'
Second, the final vowel of the preceding word is elided (contracted) in Svan (Kaldani 1953). In other words, the conjunction that syntactically belongs to the following clause is fused with the last word of the preceding clause.

Svan
[BZ 334,33 apud Abesa3e 1960: 134]

|  | ез̌̌a | oxvziz | ägit' | ère | sädil | ä3̌qīdēns |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

rabbit therefore I.sent.him home, SUBORD dinner.meal he.shall.bring.it
'I sent the rabbit home to let him bring a meal for dinner.'
In addition, the "incorrect" repetition of the subordinator er(e) in the following example seems to indicate that its first instance belongs to the protasis, which is what we expect anyway with a correlative in it (cp. (21)!):
(25) Svan (Lashkh)

| ešxu | noxs | lok | ansq̈ējne | eškalibs | ere | ešxu |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| one | rug | QUOT | she.will.make.it | such | SUBORD |  |

saxelçip lok er adpīnas, xos̆a udild lēkv
kingdom.NOM QUOT SUBORD it.will.cover.it, elder sister she.said
'I will make such a rug that it covers the whole kingdom, said the elder sister.'
On a phonetic level, all these structures correspond to those sentences where the protasis has a clause-final conjunction: they are superficially isomorphic:

1) subordinate + matrix $S$
2) co-ordination (19)
3) matrix + subordinate $S$

(22)
3. However, there are some special cases that deviate from these structures and deserve some consideration.
1) Clauses that "naturally" occur in initial position (for instance, conditional clauses), can be postposed; sticking to the ancient rhetorical terminology, I call this "hyperbaton".
(26) Georgian
[Kıziria 1987: 60] miesalmeboda, \#
he.would.have.greeted.her, \# woman
rom
'He would have greeted the woman $\underline{\text { if he had seen her.' }}$ daenaxa
(or: kals rom daenaxa, \# miesalmeoboda)
(27) Svan
[Abesa3e 1960: 141]
$k \bar{a} v \quad$ adje, miča gezal eser he xakuč PREV.OPT he.took.him.away, his child QUOT if he.wants.him 'Take him away, if you want my son.' (lit. 'he shall take him away, if he wants his son')

While preserving formal features like Wackernagel's position of the subordinator, these subsequent clauses are marked and present a different communicational structure: they are "epexegetic" and contain "old information" or the like.
2) A second deviation is the result of integrating the matrix clause in the subordinate clause, which I call "parenthesis".

Mingrelian
[Danelia \& Canava 1991: 154,26-27 apud Lomia 1999: 186] koči moko ipkirueve
man I.want.it that.I.hire(oPT).him.QUor
'I want to hire the man.'
(29) skan diaras kobzirunk, daba muners aketenki [Lomiaib.] your wedding I.see.it well.then what.kind you.will.make.it 'Well, I see what wedding you are going to arrange.'

In sentences like these, the protasis-apodosis problem simply does not arise. No matter if we assume left dislocation of the first constituent after extraction from the subordinate clause, which leaves the bi-clausal syntactic structure intact (cp. Harris 1995) or if we consider the verb as a parenthetical constituent (cp. Lomia 1999: 186-187 for some discussion),
these sentences do not form a protasis-apodosis diptych, but one prosodic unit in which the matrix clause verb is superficially integrated into its dependent clause ("clause mixing" apud Harris ib.) and semantically downgraded (Lomia ib.).
3) The third deviation, which I call "epiphrasis" actually confirms the fundamental character of the protasis-apodosis structure:
(30) Georgian (Gurian)
mere tavrobam mokida
then government touched h
axla
now
nom
sUBORD dgana,
ikenei
'Then the government set about to build a new building where it now stands.'
(31) Mingrelian
[Xubua 1937: 297,19-20 apud Lomia 1999: 188]
bošik ... kä’otə škvili do sagani, mara vāvila,
boy ... shot bow and arrow, but not.he.could.kill.him, pulandami (r)də te demi-n, tišeni steely he.was that dev-SUbord therefore
'The young man shot with his bow and arrow, but he could not kill the dev, because he was of steel.'
(32) Svan
[BZ 382,35]
lalem, mãj xeḳväd e ě̆a
he.ate.it, what he.wanted that
'He ate what he wanted.'
These structures are similar to the result of conjunction reduction, where the underlying form conforms to the general protasis-apodosis structure. Consider (30'):
(30') aašena axali šenoba, axla rom dgana, ikenei [sc.aašena]
The final expression "there" is a means of postposing the subordinate clause, at the same time marking it as a preceding subordinate clause, because it is followed by a reduced matrix clause. In this respect it conforms to type 1.
4) One way of marking an initial matrix clause as a protasis is to use a cataphoric correlative pronoun that makes us expect further specification in the apodosis:
(33) Georgian
[Somxišvili 1999: 132]

| zogi | iseti | kacia, | xars | ar | daasvenebs |
| :--- | :--- | :--- | :--- | :--- | :--- |
| some | such | man.is, | ox | not | he.lets.it.rest |

'There are such people who do not let their ox rest.'
(34) Georgian imitom vuxnav alosa, xarebi gamilalosa therefore I.plough.it.for.him . field, oxen he:shall.drive.them.out.for.me 'This is why I do a day's ploughing work for him, that he should drive out my oxen.'
5) Notice that the last two examples lack a subordinating conjunction, and asyndesis also occurs without cataphoric correlatives:
(35) Georgian

| Peride mzad iqo, etkva simartle moxucisatvis |  |
| :--- | :--- | :--- | :--- |
| Peride ready she.was, she.said truth | old.man.to |
| 'Peride was ready to tell the truth to the old man.' |  |

Svan
ezer ira, jexvd äxqide
good it.will.be, wife.as you.lead.her
'It will be good if you marry.'
In these cases, it is only a semantic property (the expectation of a complement) that points to a following clause. But what is more important here is a negative feature: the lack of a formal conjunction assimilates the subordinate clause to the unmarked apodosis of the fundamental type 1.

To conclude, we have seen that there are various forms of clause combining that converge in a preferred protasis-apodosis structure, where the protasis is formally marked in one way or the other, while the apodosis is superficially unmarked even in those cases where it is syntactically formed by a clause-initial subordinator. This is a situation that reminds us of many other languages, particularly Turkic, where the Iranian subordinator $k e / k i$ prosodically belongs to the preceding main clause, as in Turkish: ${ }^{1}$
(37) Turkish
[Schroeder 1997: 348]

| ancak | üzül-erek | ifade | ed-iyor-um | $\boldsymbol{k i}$ |
| :--- | :--- | :--- | :--- | :--- |
| but | regret-CONV | expression | do-Pres-1sG | $\boldsymbol{k i}$ |

bu hükümet-in işçi kesim-i ile diyolug-u kopuktur this government-GEN worker part-poss with dialogue-poss broken 'But I say with regret that the dialogue between this government and the working class is disturbed.'

Again, this superficial restructuring may be interpreted as a strategy to preserve a general structure of a language where subordinated constituents occur on the left side of their subordinating constituent.

Notice that ki has also been borrowed in the Georgian dialects of Turkey (Puṭaraje 1993): mixdebi ki aduyda, aduye karka (p. 21) you.will.understand ki it.boiled.up, boil.it well 'when you notice that it boiled up, boil it well'; vutxar ki, cxurebi mevqane-metki (p. 211-212) I.told.him $k i$, sheep I.brought.them-quot 'I told him that I had brought the sheep'. But ki sometimes seems to replace Georgian rom in non-final position, too: tiva moh'̈avan ki bevri, hq̈idvian (p. 205) hay they.bring.it ki much, they.sell.it 'when they harvest much hay, they sell it'. ${ }^{2}$

The lesson that might be learned from these examples is that typological counterparts of syntactic structures must sometimes be sought on other levels than syntactic structure, and that in situations of language contact, a language may resort to rather superficial linguistic

1 For a careful study of $k i$, its structural properties and its medieval predecessors (Turkish kim 'who' as a calque of Persian ke), see Eguvanli 1980-81. I am indebted to Christoph Schroeder for drawing my attention to this article.
2 For $k i$ in Laz and other Anatolian languages, see Haig 2001: 200-202. His conclusions are quite similar to the observations presented in this paper: " $k i$ is more or less enclitic on the main clause, i.e. is not a constituent of the complement clause. This development brings $k i$ into line with the typical Turkish pattern of marking syntactic relations at the right-hand boundaries of constituents, rather than at the left-hand boundaries." (p. 201).
means in order to cope with the task of - to use Lars Johanson's term (see e.g. Johanson 2002) - "copying" a language structure that is rather different from one's own.

## Abbreviations

| ART | article | POSS | possessive |
| :--- | :--- | :--- | :--- |
| BZ | SAANIEE-ToPURIA (1939) | PRES | present |
| CONV | converb | PREV | preverb |
| GEN | genitive | QUOT | quotative |
| INTERROG | interrogative | SG | singular |
| NOM | nominative | SUBORD | subordinator |
| OPT | optative |  |  |

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Winfried Boeder<br>Carl von Ossietzky Universität Oldenburg<br>Fakultät III<br>D-26111 Oldenburg<br>GERMANY<br>winfried.boeder@uni-oldenburg.de

## Corrigenda

p. 17, (9): unda dagvikla-v ...

Most of the following corrections I owe to Bernard Outtier and George Hewitt:
p. 18: (14), translation: ...she.went she palace.to ART '... into the palace'
p. 19, line 8-9: ... particle -o [...] Old Georgian -a
p. 19 (20a), translation: 'I immediately closed the doors in order that the dogs might not follow him/her inside'
p. 20, first line: delete: "After the use of correlatives" (The unnaturalness is not triggered by correlatives)
p. 20 (22), translation: 'It [sc. the dragon] sent a message to the king that he should send one man each day [litt. one man at a time] to meet it at this appointed place'
p. 20 (24), translation: you should.have.brought.it 'to let you bring a meal for dinner'
p. 21, section 3.1) should read: "... (for instance, conditional clauses; Kiziria 1987: 59)
p. 21 (26), translation: 'He would have greeted her, if the woman had noticed him.'
p. 21, section 3.1) should read: "... (for instance, conditional clauses; Kiziria 1987: 59)

