From negative cleft to external negator

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Abstract

This paper discusses the diachronic development, syntax and semantics of the negator lāw in Jewish Babylonian Aramaic (henceforth JBA). We show that lāw developed from the univerbation between the standard sentential negator and agreement morphology in negative clefts. Whereas the semantics of negative clefts is retained in the new negator, the biclausal structure of clefts is replaced by a monoclausal structure with the negator lāw merged in the left periphery of the clause. From there the negator takes propositional scope and expresses the meaning of external negation, equivalent to ‘it is not the case’. Syntactically, we propose that the new negator is merged in SpecFocP, a projection in the extended CP-domain, which has been argued to host negative DPs/PPs in English (Haegeman 2000) and wh-words. Finally, the paper extends the analysis to Sicilian neca (Cruschina 2010; Garzonio and Poletto 2015), opening up the route to consider the development of an external negator from a negative cleft as a path of change that has hitherto been left unexplored. Furthermore, this paper demonstrates how a similar semantic interpretation associated with two different syntactic structures can be a trigger for syntactic reanalysis.

Keywords: external negation – Jewish Babylonian Aramaic –clefts - left periphery – Focus Phrase

1. Introduction

This paper discusses the syntax and the semantics of the negator lāw in Jewish Babylonian Aramaic (henceforth JBA) through the lenses of the diachronic emergence of this negator. The new negator lāw is a sentential external negator, whose syntactic and semantic properties will be discussed alongside a diachronic study concerning its origin. Syntactically, we propose that lāw, like negative DPs/PPs in English (Haegeman 2000) and Sicilian neca (Cruschina 2010; Garzonio and Poletto 2015) is merged in SpecFocP in the extended CP-domain from where it takes wide scope. Semantically, lāw takes propositional scope and expresses the meaning of external negation, equivalent to the independent clause: ‘it is not the case’. Diachronically, lāw, as a single-morpheme external negation, developed from a cleft whose matrix clause negates the content of the embedded clause. Following work by Bar-Asher Siegel (2015b), we argue that the syntactic reanalysis of lāw is triggered by a
phonological process of univerbation between the regular negator ħā in clefts with the agreement clitic. This syntactic reanalysis involves a morphological univerbation of ħāw (Andersen 1987). The main claim of this paper is that the syntactic and the semantic characteristics of this negator can be better understood in light of its historical origin. Moreover, this is an interesting example for how a similar semantic interpretation can be associated with two different syntactic structures, thus allowing a syntactic reanalysis. This type of development is not part of Jespersen Cycle or Croft’s cycle, but constitutes the development of a non-standard negator next to the standard negator. It will be demonstrated that a similar development can be observed for the Sicilian negator neca as well (cf. Garzonio and Poletto 2015).

In light of this, the structure of the paper is as follows: In section 2 we discuss the historical development of JBA ħāw. In section 3 we review the properties of ħāw in the first and second stages of its development, then we move on to an analysis of ħāw in both stages. Section 4 widens the empirical perspective by discussing the emergence of Sicilian neca and the similarity of its properties to JBA ħāw. The final section concludes and discusses remaining issues and recommendations for further research.

2. JBA ħāw: historical development

Before embarking upon the evolution of the negative marker in JBA a few words should be said concerning the history of Aramaic more broadly. Aramaic is a member of the Semitic language family and belongs to the Northwest Semitic subfamily. The history of Aramaic is commonly divided into five phases (Fitzmyer 1979):

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1 The abbreviation to the sources follows the standard abbreviations which appear in The SBL Handbook of Style (Alexander 1999: 79–80). The interlinear glosses are according to the Leipzig Glossing Rules, with the addition of the following abbreviations: GN – geographical name; PN – proper name; RQM – Rhetorical question marker; d- in JBA is a subordination marker, i.e., it appears at the beginning of all types of embedded clauses. For the sake of simplicity, in this paper it is always glossed with “REL”. The choice of manuscript for each citation follow Sokoloff's (2002: 55-60) default manuscripts. We wish to thank Silvio Cruschina for informing and helping us with the data from Sicilian Mussomeli and discussing the semantics of the relevant expression with us.
Old Aramaic (925–700 B.C.E.)
Official Aramaic (700–200 B.C.E.)
Middle Aramaic (200 B.C.E.–200 C.E.)
Late Aramaic (200–700 C.E.)
Neo-Aramaic (700 C.E.–).

Since Late Aramaic, there is an opposition between the eastern and western dialects. Our paper focuses on a development that took place within the eastern dialects of the late periods, a branch which includes three main dialects: JBA, Syriac, and Mandaic. Each of these dialects was spoken by a different ethnic group, Jews, Christians and Mandaeans respectively. JBA is used to refer to the preserved material that was composed by the Jews during theLate Aramaic period, from the third century onwards and is the main focus of the present paper. All examples in this paper will be drawn from the Babylonian Talmud, the larger corpus written in this dialect.

JBA has two negators for sentential negation (Schlesinger 1928: 143-153; Bar-Asher Siegal 2016: 246-253): the unmarked negator ḥā, common to all branches of the Semitic languages, and the marked negator ḥāw, which appears in Aramaic and in Hebrew dialects that were heavily under the influence of Aramaic. As will be demonstrated below, diachronically, the evolution of ḥāw as reflected in the Eastern Aramaic dialects can be characterized as consisting of two stages:

**Stage I:** ḥāw is a contraction of two morphemes. The morphemes ḥā and the enclitic hu (originally 3.M.SG personal pronoun) went through a process of synergism to form ḥāw, due to the elision of the intervocalic consonant /hu/. Thus ḥā-hu became ḥāhu, phonetically equivalent to ḥāw. The two morphemes together constitute a complete clause, with the meaning of "it is not the case", always reversing the truth-value of another clause.

This sort of contraction manifests a case of phonological univerbation (in which only at the phonological level the two independent morphemes are expressed together).

**Stage II:** ḥāw is a single morpheme, functioning as another type of negator, which is semantically and syntactically marked, i.e. different from the regular sentential negator.

From a diachronic point of view, ḥāw underwent a process of morphological univerbation, as the two morphemes which constitute a clause were reanalyzed to become a single morpheme, operating as a sentential external negator. We use the term univerbation as a descriptive term. A theoretical analysis of each stage will be provided below. Furthermore, it must be emphasized that by Stages we refer to diachronic developments, that Stage II occurred as a consequence of Stage I. These stages are not exclusive, as a language can have two types of ḥāw, in defined environments. As we will see, in certain environments ḥāw in JBA reflects stage I, and in others stage II.
When considering this development in a broader typological perspective of the origin of negators cross-linguistically, the type of change that JBA ǧaw underwent in terms of the typology of the diachrony of negation proposed by van der Auwera (2010), belongs to type (1c), of the three types of development illustrated in (1).

(1)  
\[ \text{a) } X \rightarrow \text{NEG} \]  
\[ \text{b) } \text{NEG}_1 X \rightarrow \text{NEG}_1 \text{NEG}_2 \rightarrow \text{NEG}_2 \]  
\[ \text{c) } \text{NEG}_1 X \rightarrow \text{[NEG}_1\text{-X]}_{\text{NEG}_2} \]  

The first type illustrates a derivation of a negator from a non-negative category (see Bar-Asher Siegal 2017: 44-46). The second type portrays the type associated with Jespersen’s Cycle (inter alia Jespersen 1917, Horn 1989, van der Auwera en NeucKermans 2004, van der Auwera 2009, 2010, Breitbarth and Haegeman 2010, Breitbarth et al 2013, Willis et al 2013, De Clercq 2017) and with Croft’s Cycle (Croft 1991, Veselinova 2013). The negator, NEGl, first co-occurs with a new category X, which then becomes NEG2, in that it needs to co-occur with NEG1 to express sentential negation, to finally replace NEG1 and become the new negator. In the third type, NEG1 and another element (X) combine to form a new negator: NEG2. The evolution of JBA ǧaw is a subtype of the third kind of diachronic process. Namely, it develops a NEG2 on the basis of NEG1+X, but instead of losing NEG1, it retains the old negator while the new negator [NEG1-X]NEG2 is marked for certain functions. More concretely, the agreement marker (-hu) that often co-occurs with the standard negative marker (here ǧā), cliticized to that negative marker, with the result of an emergence of the new negative marker, i.e. ǧaw. Notably, the newly created negator ǧaw does not lead to the loss of the negator ǧā, from which it derives. Moreover, ǧaw also retains its previous functions, i.e. it can still be used either in a cleft or as an independent sentence. Crucially, such a diachronic process adds a new type of negator to the language, whose functions were previously expressed by the use of ǧā.

2. Properties of ǧaw

As claimed in the introduction, we should identify two stages in the development of ǧaw in the history of Eastern Aramaic. In the following sub-sections, we will substantiate this claim. We will begin with the properties of ǧaw in Syriac, which according to our analysis illustrates Stage I. This stage is still manifested in certain environments in JBA too. Demonstration of the reanalysis of ǧaw in JBA will follow this analysis. This suits a broader tendency in the relationship between these dialects, that Syriac
often represents the earlier stage in the diachronic chain of the Eastern Aramaic Dialects (Bar-Asher Siegal 2016: 26-27).

2.1. Stage I
In all Late Aramaic dialects the standard negator is lā, the common Semitic negator (Wlaker 1896). In Syriac, next to lā, we encounter also the form lāw, which has a restricted distribution, as it appears only in negation in the matrix clause of cleft sentences (Joosten 1992, Pat-El 2006). At this stage, we argue, this form is a phonological univerbation of two independent morphemes: lā+hu: the regular negator (lā) merged with the agreement clitic (–hu, 3rd person singular, cf. Doron (1986)). Thus, lāw on its own is a complete sentence:

(2) lā=w

NEG=3MSG

‘It is not the case" lit. "[it] is not it.’

Support for this hypothesis comes from (3). Only when the verb ‘to be’ is absent from the main clause, as in (3a), can lā and -hu merge and be pronounced as lāw. If the verb is present in the main clause (in past tense, for example (see Goldenberg 1983)), as in (3b), the contraction cannot take place and the original negator lā remains.

(3) a. lā=w Ḥīm ʾītaw=y wa

NEG=3MSG PN exist=3FSG be.PST.3MSG

‘It was not PN (lit. it is not the case that it was PN)’
(Ephrem, Genesis 64, Pat-El 2006, ex. 18)

b. lā=wā men ʾūšānā=hu

NEG=be.PST.3MSG from coercious=3MSG

‘It was not out of coercion (lit. it is not the case that it was out

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2 Muraoka & Porten (1998: 25) propose that there is one attestation of lāw already in Egyptian Official Aramaic.
of coercion) (Ephrem, Genesis 30, Pat-El 2006, ex. 17)

In JBA, lāw retained also its original use as two morphemes, in cleft sentences (cf. below (17)), as well as in replies to questions:

```
(4)  'mar  l-eh  'it  l-āk  nikse
     b-qappuṭqāyā  'mar  l-eh  lā-w

   ‘He said to him, “Do you have property in GN?” He replied, “No.”’ (Ber. 56b)
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There are rare examples such as (5) with a 3rd feminine singular pronoun (ḥi: lā + hi [not+it] > lāḥi [= láy]), as the gender of complete statements is interchangeable between masculine and feminine (Bar-Asher Siegal 2016: 67–69).

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(5)  māy  'āmart ...  dilmā ...  lá-y
     what  say.PTCP.2.M.SG  perhaps  NEG-3.F.S

   ‘What would you say, perhaps... it is not so!’ (Tem. 8b)
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The variation between lāw and láy clearly indicates that in this function lāw consists of two morphemes, as the agreement clitic can be either masculine or feminine.

2.2 Stage II

In most of the appearances of lāw in JBA, this conflation can no longer be phonological in nature. What follows lāw is not necessarily a sentence, this is illustrated by (6a), a common phrase in JBA where the adverb hāke ‘such, so’ follows the negator lāw. At this stage lāw, which usually occurs in clause-initial position, can co-occur with a copular verb that has pronominal agreement (6b), with the verb ‘to be’ (6c), with a feminine copula (6d, cf. (5)), or with the regular negator lā, as in (6e).

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(6)  a.  hā  lāw  hāke
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DEM.F.SG    NEG    so

‘[In fact] it is not so.’ (among others, Menah. 55b)

b. lāw gazlān-e ninhu

NEG    thief-PL    COP.3.M.PL

‘They are not thieves.’ (B. Qam. 79b)

c. lāw 'isurā    hawya

NEG    prohibition    be.PST.3.F.SG

‘It was not a prohibition.’ (Yebam. 13b)

d. lāw miltā    hi

NEG    thing    3.F.SG

‘It is not something (significant)’ (Sanh. 47b).

e. lāw lā    Šənā

NEG    NEG    different.M.SG

‘Isn't it the case that it doesn't matter?!’ (Šab 112b)

Since, what comes after lāw is not necessarily a clause (6a), it can be concluded that it is not anymore a cleft sentence. Furthermore, Bar-Asher Siegal (2015b: 1040-1041) demonstrates that all sentences in (6) do not demonstrate the characteristic of cleft sentences in JBA. Finally, unlike Syriac (cf. 3a-c) it is always lāw in this context, and it is never the case that the negator lā is followed by the verb to be in this context. Thus, it is only one main clause, and the agreement features are either expressed by other copular clitics forms (6b, d) or with the verb to be (6c). According to this analysis, it must be concluded that at this point in the history of Aramaic, lāw; in these contexts, does not consist of an agreement feature. Thus, this stage exhibits a morphological univerbation. lāw, accordingly, was reanalyzed as consisting of a single morpheme: a negator.
2.2.1. Distributional properties

Bar-Asher Siegal (2015b) demonstrates the following syntactic difference between the two negators lā and lāw in JBA (Stage II): the standard negator lā always immediately precedes the main predicate, (7)-(8), whereas lāw in most cases does not appear next to the verb, and tends to appear either in sentence-initial position, (9) or following the overt subject (10).

(7)  ’nā  lā  ’mari  l-āk  
     I   NEG  say.PST.1.SG  to-2.M.SG  
‘I didn’t tell you.’ (Giṭ. 56b)

(8)  lā  mi’rib  šappir  
     NEG  mix.PTCP.PASS.3.M.SG  appropriately  
‘It is not mixed up appropriately.’ (Šabb. 156a)

(9)  lāw  ’l-eh  qā=sāmk-īnan  
     NEG  upon-3.M.SG  DUR=rely.PTCP.1.PL  
‘We do not rely upon it’ (Yebam. 25a)

(10)  šmuel  lāw  šappir  qā=māšanne  l-eh  
‘PN was not answering him appropriately.’  
      (B. Meṣi’a 56a)

Furthermore, Bar-Asher Siegal (2015b) notes that while lā is the unmarked negator, lāw is marked for the following four functions: I) negative rhetorical questions, (11)-(12); II) antecedents of conditional counterfactual sentences, (13); III) to negate a sentence that had been affirmed earlier, (14) and to reject contextual presuppositions (15).

(11)  lāw  ’mari  l-āk  
     NEG  say.PST.1.SG  to-2.M.SG  

'Didn’t I tell you that...’
(Mo’ed Qaṭ. 18b)

(12) ’aṭṭu hāhu gabrā lāw yehūdā’-e hu
RQM DEM.M.SG man NEG Jewish-PL COP.3.M.SG
‘Is this one [i.e., am I] not a Jewish man?’
(‘Abod. Zar. 76b)

(13) ’i lāw ’at bahad-an lā hwa
COND NEG you with-1.PL NEG be.PST.3.M.SG
sāleq l-an dinā
raise.PTCP.3.M.SG to-1.PL judgment
‘Had you not been with us, our judgment would not have been conclusive.’
(Sanh. 30a)

(14) d-mar sābar k-karmelit dāmy-ā
REL-master think.PTCP.3.M.SG like-karmelit similar-F.SG
w-mar sābar lāw k-karmelit dāmy-ā
and-master think.PTCP.3.M.SG NEG like-karmelit similar-F.SG
‘As the one person thought it is like a Carmelite; and the other person thought it is not like a karmelit.’ (Šabb. 3b)

(15) lāw ’akbrā gnab ’ellāe ḥorā gnab
NEG mouse steal.PST.3.M.SG but hole steal.PST.3.M.SG
‘It is not the case that the mouse stole, the hole stole.’ (‘Ar. 30a)

What all these contexts have in common is that the root proposition (what is negated) is presupposed, as the $p$ on which the negator operates is in the common ground. This is clear in the case of negation of sentences that were affirmed before (14) and in the contexts of rejection of contextual presupposition (15). Furthermore, in negative rhetorical questions (11-12) the root proposition is assumed to be true ("isn't it $p$?!" presupposes that $p$ is true) and similarly a negative marker in the
antecedent of a counterfactual (13) also presents the root to be true ("hadn't it been the case that \( p \)" presupposes that \( p \) is true).

We would like to add to this list the following observation: while \( l\text{āw} \) co-occurs with the standard negator \( l\text{ā} \) in one clause (16), it is never attested with another \( l\text{āw} \) in the same clause, which presumably attests for ungrammaticality.

\[
(16) \quad l\text{āw} \quad l\text{ā} \quad šnā \\
\text{NEG} \quad \text{NEG} \quad \text{different.M.SG} \\
\text{‘Isn't it the case that it doesn't matter?!’ (Šab 112b)}
\]

Moreover, as noted earlier, like \( l\text{ā}, l\text{āw} \) can still be used in clefts, (17) and it may appear in negative answers (18).

\[
(17) \quad l\text{āw} \quad d-l\text{ā} \quad qnu \quad \text{minn-eh} \\
\text{NEG} \quad \text{REL-NEG} \quad \text{acquire-possession.PST.3.M.PL} \quad \text{from-3.M.SG} \\
\text{NEG} \quad \text{REL-acquire-possession.PST.3.M.PL} \quad \text{from-3.M.SG} \\
\text{‘Isn’t it the case where it was not purchased from him? No, it was purchased from him.’ (B. Bat. 151b)}
\]

\[
(18) \quad \text{mar} \quad l\text{-eh} \quad ‘it \quad l-āk \quad \text{nikse} \quad \text{b-qapputqāyā,} \\
\text{say} \quad \text{PST.3.M.SG} \quad \text{to-3.M.SG} \quad \text{exist} \quad \text{to-2.M.SG} \quad \text{property in-GN} \\
\text{‘mar} \quad l\text{-eh} \quad l\text{ā-w} \\
\text{say.PST.3.M.SG} \quad \text{to-3.M.SG} \quad \text{NEG-3.M.SG} \\
\text{‘He said to him, “Do you have property in GN?” He replied, “No.”’} \\
\text{(Ber. 56b)}
\]

Although it may seem at first that in replies \( l\text{āw} \) serves as the polarity particle ‘no’ (18) (Holmberg 2017), this is most likely not the case. As we saw in (5), the agreement can vary in this context, and therefore it should be analyzed as a full sentence.

\[\text{2.2.2. Semantic properties}\]

In what follows we will demonstrate that in the environments in which \( l\text{āw} \) is available, the only available interpretation of the negation in terms of scope, is the widest, i.e. propositional scope. We will turn to support this claim after elaborating first on external negation.
In negating the root proposition stated in (19a), it is possible to state that (19a) is false. This yields the sentence in (19b) with a wide scope reading of negation. This is a case in which the external negation is expressed explicitly, in the sense that it is stated with an independent clause that it is not true that a certain number of questions were answered. For the wide scope reading to be true, it must be the case that the number of questions that were answered is any number which is not 3. It is also possible to negate the proposition in (19a) by means of a standard sentential negation, as in (19c).

One salient reading of (19c) states how many questions were not answered. This sentence is true if at most 7 questions were answered. For (19c), especially when "three" is focused, the negation can also be interpreted as external negation: it will then have the same truth conditions as (19b).

(19)  
a. Mike answered three questions (out of ten) \((n=3)\)  
b. It is not the case that Mike answered three questions (out of ten) \((n\neq 3)\)  
c. Mike did not answer three questions (out of ten). (salient: \(n\leq 7\) or \(n\neq 3\))

Crucially, (19b) does not have a reading that requires that no more than 7 answers were provided by Mike.

In the environments where \(\mathbb{A}\) appears in JBA (7)-(18), the interpretation of the negation is similar to the one that "external negation" has in (19b). Whereas the regular negator \(\mathbb{A}\) can trigger both the external and internal negation reading, the typical contexts where \(\mathbb{A}\) appear, illustrated by means of the English examples in (20b-c), can only give rise to the external negation reading. Crucially, as expected from external negation they are about whether it is true that 3 questions were answered, and not about how many questions were left unanswered, 7 or less.\(^3\)

(20)  
a. Mike didn't answer three questions (out of ten). (salient \(n\leq 7\) or \(n\neq 3\))  
b. If Mike had not answered three questions (out of ten) he would have failed

\(^3\) Bar-Asher Siegal (2015a) notes about these environments, that besides the fact that they can only take a wide scope external negation, also PPIs are rescued in these environments (Ladusaw 1979), and they are also the environments in which German has the so-called "light negation", i.e. the negator \(\text{nieht}\) is in an unusual position (Schwarz and Bhatt 2006).
in the exam.                                              (n>3)
c. Didn't he answer three questions (out of ten)?!     (n=3)

Accordingly, we may conclude, that the semantics of lāw is similar in Stage 1 (negative matrix clause of cleft sentences, as in (19b)) and in stage 2 (sentential negation). In both stages lāw takes the widest possible scope, with respect to the clause.

2.3. **Overview of the properties of lāw**

Table 1 summarizes the properties that we discussed for lāw.

<table>
<thead>
<tr>
<th>Property</th>
<th>lāw</th>
</tr>
</thead>
<tbody>
<tr>
<td>derived from cleft</td>
<td>✓</td>
</tr>
<tr>
<td>indicating ∼p, when p is presupposed</td>
<td>✓</td>
</tr>
<tr>
<td>in rhetorical question</td>
<td>✓</td>
</tr>
<tr>
<td>in antecedent of conditional counterfactual</td>
<td>✓</td>
</tr>
<tr>
<td>can co-occur with standard negator</td>
<td>✓</td>
</tr>
<tr>
<td>clause-initial position</td>
<td>✓</td>
</tr>
<tr>
<td>appears in environments in which negation is always interpreted with wide scope</td>
<td>✓</td>
</tr>
</tbody>
</table>

Table 1: the characteristics of JBA lāw

3. **Analysis**

In terms of analysis, we would like to propose that lā in JBA expresses regular sentential negation and is base-generated above IP/TP (cf. Belletti 1990, Laka 1994, Zanuttini, 1996, 1997, Cormack and Smith 2002, Holmberg 2003, Holmberg 2013, De Clercq 2013, 2017). Support for this claim comes from the fact that the regular negative marker always takes surface scope over tense and aspect and never follows tense morphology.

(21) 'anā lā qā=āminā

I NEG DUR=say.PTCP.1SG

‘I don’t say’ (Pes. 3a)

More support for the position of sentential negation comes from the data in (22)-(23). (22) illustrates existential sentences in JBA. (22a) shows an existential sentence in the present tense with the existential expletive ika. In the present tense the copula is not overt or simply not present. In (22b)
the existential sentence contains a past tense form of to be and the use of ika is optional (cf. Bar-Asher Siegal 2016: 114-118):

(22) a. ika gabra
    there man
    ‘The is a man.’
b. hwa (ika) gabra
    was.3PSG there man
    ‘There is a man.’

In the presence of negation, a suppletive form can be used in the present tense (23a). This suppletive form seems the univerbation of the negative marker and the existential expletive. However, in the presence of the past tense this univerbation of the negator and ika is not possible (23b). The presence of ika is even ungrammatical (23c). The only way to negate the sentence is by means of là preceding the copular verb in the past tense. This suggests two things: 1) that là indeed precedes tense, since it is clearly the tensed copular verb that intervenes in the univerbation process between la and ika and 2) that ika is incompatible with the combination of negation and past tense. 4

(23) a. layka gabra
    NEG.is.3PSG.there man
    ‘There is no man’
b. là hwa gabra
    NEG. be.PAST.3PSG man

4 It is worth noting that with làw there is no contraction of the negator and the existential marker (Bar-Asher Siegal 2016: 254):

làw  mi  ika  RASHBAG d-qay  kwat-i
NEG  RQM  there  PN  REL-stand.PTCP.3.M.SG  like-1.C.SG
Isn't it the case that there is PN who agrees with me? (B. Bay 174b)
‘There was no man.’

c. *layka hwa
   NEG.is.3SG.there be.PAST.3SG

d. *la hwa ika gabra
   NEG. be.PAST.3SG there man

As proposed in section 2, in Stage I, lâ could phonologically contract with the agreement marker on the copula, i.e. –hu, in IP/TP. A prerequisite for this contraction to take place is the fact that there is only a clitic agreement without the verb to be in these clefts.

(24) lâ=w Ḥîm ʾîtaw=y wa
    NEG=3MSG PN exist=3FSG be.PST.3MSG

   ‘It was not PN (lit. it is not the case that it was PN)’

Now before we represent how phonological contraction could take place in JBA, we need to take a little detour to how clefts can be derived in syntax and to the position for focus in syntax. We will illustrate the syntax of clefts with an example from English. Belletti (2004, 2009, 2011) derives it-clefts by phrasal movement of the cleft focus to the specifier of the cleft relative, as illustrated in (25).5

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5 One of our reviewers raises the question what the cleft focus is in it-clefts without an overt cleft focus, i.e. those of the type: it is(not) [the case] that he left. For this type of clefts we suggest that TP1 selects for a DP “the case” and that the entire embedded FinP is extracted moving to SpecFocP of the embedded CP. It is beyond any doubt that the ramifications of this proposal are beyond the scope of this paper. We therefore leave a more detailed analysis of this type of clefts for future research.
The idea that the cleft focus moves to a position designated to host focus, i.e. FocP, is in line with the generative tradition (Rizzi 1997). Rizzi (1997: 291) argues on the basis of the incompatibility of foci and wh-words that they target the same left peripheral focus position, i.e. FocP, in main clauses. The data from Italian illustrate the complementary distribution between foci and wh-words:

(26)  

a. *A GIANNI che cosa hai detto (non a Piero)?
    To John what have said (not to Peter)

b. * Che cosa a GIANNI hai detto (non a Piero)?

Based on these and other data Rizzi argues that CP, the layer of the clause that anchors the clause in discourse and takes care of clause typing, needs to be split up in several layers that all contribute to the mediation between discourse and the propositional content in IP. He argues that the following features or levels of structure are present at the left periphery of the clause, (27). One of these positions is the Focus phrase (FocP), which is targeted by foci and wh-question words alike.

(27)  

ForceP > TopP* > FocP > TopP* > FinP > TP

Rizzi (1997: 285) says the following about Focus in the left periphery:

The preposed element, bearing focal stress, introduces new information, whereas the open sentence expresses contextually given information, knowledge that the speaker presupposes to be shared with the hearer.

Belletti (2004, 2009, 2011) on the other hand argues that there are two different positions for focus: the left peripheral FocP is a position dedicated to contrastive and corrective focus, whilst a Focus
position above the verb phrase is dedicated to new information focus. Abstracting away from this
distinction for now, it is argued for a cleft sentence like (28) that *the cat* is the focus and *that Mary saw X* is the presupposed material (see Haegeman et al 2015: 75).

(28) It was THE CAT that Mary saw.

Following arguments put forward by Haegeman et al (2015), we thus adopt Belletti’s biclausal
analysis for *it*-clefts, with *be* projecting its own *TP*, i.e. TP₁, the first clause, and the focus of the cleft, *the cat* in (29), moving to the specifier of a (contrastive) Focus phrase in the left periphery of the second clause, i.e. TP₂ (Belletti 2004, 2009, 2011; Meinunger 1997, 1998; Frascarelli and Ramaglia’s 2013, cf. Spector Shirtz 2014 in the context of Semitic languages). The embedded clause is a reduced clause in the sense that ForceP is missing, cf. (25).

We would like to propose that the original context in which *lāw* came into being was a bi-
clausal structure, as in (25), illustrated for *lāw* in (29). Due to the absence of an overt subject in SpecTP₁ the two heads, i.e. the Neg° head and the agreement -hu on the verbal empty head could conflate phonologically.

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6 Subject clefts and new information clefts have thus a slightly different derivation than the one depicted in (25), with the cleft focus moving to a low FocP in the matrix CP. For the sake of the discussion here, we will abstract away from the distinction between new information clefts and contrastive/corrective clefts and typically treat clefts as contrastive.
7 Haegeman et al. (2015) compare biclausal and monoclausal analyses (Meinunger (1997, 1998) and Frascarelli and Ramaglia (2013)) for *it*-clefts and argue in favor of Belletti’s biclausal proposal. They do so because *it*-clefts are compatible with negative inversion and wh-movement. A monoclausal analysis would involve the postulation of extra left peripheral positions (beyond FocP) to host negative DPs and PPs and wh-constituents at the loss of capturing the complementary distribution between these constituents in the main clause.
In Stage II ḥāw was reanalyzed as an external negator. Given its surface appearance below the coordinator (30), and conditional complementizer (31), we deduce that it became a negative element in its own right in a monoclausal structure.

(30)    w-ḥāw  ḥamrā  hu

and-NEG wine COP.3.M.SG

‘Isn’t it a wine?!’ (Yoma 76b)

(31)    'i  ḥāw  'at  bahad-an  ḥā

COND  NEG  you  with-1.PL  NEG  hwa

be.PST.3.M.SG  raise.PTCP.3.M.SG to-1.PL  judgment

‘Had you not been with us, our judgment would not have been conclusive.’
láw is not (only) contributing emphasis on the polarity expressed by another negative or positive element in the clause (cf. Breitbarth et al 2013), as is the case for Hungarian igen (Liptak 2013), Latin quidem (Danckaert 2014, 2015) or Flemish en (Breitbarth and Haegeman 2014), but most importantly, it changes the truth conditions of a sentence and contributes real negation. Moreover, as we saw in (6e) in combination with the regular negator, láw gives rise to double negation, i.e. the negations cancel each other out. Following work by De Clercq (2013, 2017) the latter fact indicates that the two negators must be merged in different positions and both involve a negative feature. Given that láw always precedes lá, which – as we argued – is hosted by a NegP above TP - the natural assumption is that it is merged even higher in the structure. Consequently, what we would like to propose is that the newly created negative marker is basegenerated in a left peripheral SpecFocP, the projection which was also targeted by the focus of the cleft in the first stage of the development. As such its scope is always the entire p, and accordingly this proposal captures the fact that láw is on the one hand a reverser of a truth conditions (p is in its scope), providing contrastive information, and on the other hand typically occurs in contexts which are presuppositional, i.e. the root proposition to which it applies is the presupposition, the complement of FocP.

The tree structure in (32) illustrates the two positions for negation, the external negation in SpecFocP on the one hand and the regular sentential negation above TP on the other hand.

(32)

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8 But see Breitbarth and Haegeman 2015 for another analysis.
Further support for this proposal of lāw in SpecFocP comes from the interaction of preposed negative constituents and wh-constituents in English (Haegeman 2000). Haegeman (2000) argues that preposed negative DPs and PPs with sentential negative scope are in a left peripheral SpecFocP. The idea that preposed negative constituents are focal in nature can be traced back to Rochemont (1978:57), who says that “the affective conditioned inversion construction is indicative of a marked focus assignment, much like the cleft construction.” One of the crucial arguments from Rochemont is that these constituents can function as replies to wh-questions, as illustrated by the question-answer pair in (33).

(33) (a) What job would John be happy with?
(b) With no job would John be happy. (Rochemont 1978: 79-80)

Haegeman (2000: 27) adopts this argument and provides more support for the claim that negative constituents are focalized by showing that – like foci (cf. Rizzi 1997) - preposed negative constituents are incompatible with preposed wh- constituents in main clauses, (34), again suggesting that they as well are in complementary distribution and hence target the same position.

(34) (a) *On no account where should I go?
(b) *Where on no account should I go?

Also in the JBA corpus there are no attestations of lāw and a wh-constituent co-occurring, (35), but there are attestations of wh- and lā that co-occur, (36).

(35) (unattested) amāy lāw ’asqu-h l-šmuel
why NEG bring.PST.3PL-3MSG ACC-Samuel

(36) amāy lā ’asqu-h l-šmuel
why NEG bring.PST.3PL-3MSG ACC-Samuel

‘Why didn't they bring Samuel with them’ (Ber. 29a)
(37) kama lā miqqṣar
how.long NEG sick.PTCP.3.M.SG

‘How long he will not be sick?’ (B. Qama 91a)

It thus seems that $lāw$ in main clauses targets the same position as wh-constituents and negative DPs/PPs. We take this position to be SpecFocP in the left periphery, a position dedicated to focus. Unlike preposed negative constituents, which are merged clause internally and move to the left peripheral FocP, we propose that SpecFocP is the base generated position for $lāw$ in Stage II of its development.

More support that $lāw$ needs to be in a position outscoping regular sentence negation and regular non-topical subjects, i.e. high in the left periphery, comes from its interaction with universal quantifiers. Preposed negative constituents in English cannot take low scope with respect to the universal quantifier (38a), whereas the regular predicate negator allows both scoping patterns (38b).

(38) a. Under no circumstances would everyone go to the party. $¬ > ∀ / ∀ > ¬$

b. Everyone hasn’t arrived yet. $¬ > ∀ / ∀ > ¬$

Also for JBA, one can demonstrate that $lāw$ patterns with the preposed DP and PP and takes widest scope with respect to universal quantifiers, (39)-(40), while $lā$ is interpreted as being under the scope of the universal quantification, (41).

(39) lāw kull-e `ālmā `bide
NEG all-3MSG world do.PASS.PTCP.3MPL
d-sāyme msan-e
REL-wear.PTCP.3MPL shoe-PL

‘It is not the case that everyone is apt to wear shoes.’ (Mo’ed Qaṭ. 24a) ($¬ > ∀$)
Given that overt subjects can precede lāw and that, as argued, lāw is basegenerated in the left peripheral SpecFocP, overt subjects must target a position in the left periphery above FocP. As illustrated in (27), Rizzi (1997) argued on the basis of Italian, a pro-drop language, that there is a position above FocP for topical constituents. Since JBA is a pro-drop language, we assume – in line with other proposals for subjects in pro-drop languages – that overt subjects in cases like (42) are topics, merged in a high (topic) position (Frascarelli and Hinterhölz 2007).  

In sum, in this section, we analyzed how the JBA negator lāw arose as the consequence of a clitization of the agreement marking –hu with the standard negator lā. Later, in a second stage, this negator
became an independent negator used to express external negative scope. We argued in this section that its basegenerated position is SpecFocP, a left peripheral position of the clause dedicated to contrastive focus. Support for this idea comes from its incompatibility with wh-question words and its wide scope interpretation over universal quantifiers. The position used for the focus of clefts has become the position for the new negator.

At this point, we would like to emphasize that according to the current analysis, both the syntax (position in the clause, non-occurrence with interrogatives, reading above quantifiers etc.) and the semantic characteristics (widest scope reading) of the negator lāw can be understood in light of its historical origin. The main change from Stage I to Stage II is that from a biclausal cleft structure to a monoclausal structure. The regular TP-negator from Stage I gets reanalyzed to become a negator that takes the position that the focus of the cleft had in the biclausal cleft structure. The following should be noted about this analysis:

1. In both structures, the TP_{(2)}/root clause is presupposed, and the negator takes wide scope with respect to the TP_{(2)}. It is because of the fact that the same semantic effect of negation, i.e. widest scope, can be obtained in both configurations, that negative clefts are prone to be reanalyzed as an external negator.
2. The reanalysis of lāw from a bimorphemic structure to a single morpheme goes hand in hand with the change from a biclausal structure to a monoclausal structure.

Since the semantics is similar with both constructions, while delivering the same "content" the similar sentences could be syntactically analyzed in two different ways – this is a state of affairs that can easily prone a syntactic reanalysis.

In the following section, we would like to demonstrate that a similar type of development can be identified in another language, by pointing to similarities between our synchronic and diachronic analysis of the Aramaic lāw and the negator neca in the dialect of Mussomeli (Sicilia). This negator also seems to be derived from a cleft (Cruschina 2010) and as Garzonio and Poletto (2015) analyze its syntax, this negator is also proposed to be generated in a left peripheral FocP. Moreover, we will show that the similarities with JBA lāw can be demonstrated at the semantic level as well.

4. Cross-linguistic comparison: Sicilian neca

The negator neca in the Sicilian dialect of Mussomeli shares the same origin of lāw, since as Cruschina (2010:36) argues, it is derived from a cleft. The path of this derivation is illustrated in (43).
(43) $Un \ jè \ ca \ \rightarrow \ n-è-ca \ \rightarrow \ neca$

Not it.is that

In this section, we will demonstrate other similarities between these two negators. Like the JBA negator, *neca* cancels presuppositions or ‘characterizes the negated proposition as a wrong expectation made by the interlocutor’ (Poletto & Garzonio 2015: 140).

(44) *Neca t’ à scantari!*

neca refl.2sg= have.2sg+ to fear.inf

‘You don’t have to be afraid!’

(from Cruschina 2010:36, glosses p.c Cruschina)

(45) *Sta lezioni neca si capisci.*

this lecture neca impers= understand.3sg

‘This lecture, one does not understand it’

=> ‘One does not understand this lecture.’

(from Cruschina 2010:36, glosses p.c Cruschina)

Like *lāw neca* can also be used in rhetorical questions (46), but was perceived as odd in the protasis of counterfactual conditionals, according to our informant:

(46) *neca jè vinu?*

neca is wine

‘Surely this is not wine, is it?’

11 Similarly to question in JBA with *lāw*, the questions with *neca* are rhetoric, in the sense that when asking them, one does not necessarily expect an answer. However, they are different in their content: while asking "*lāw p?*" one is presupposing that *p* is true; in contrast, when asking "*neca p?*" one is asking to confirm that "not *p*" is true. According to our consultant, it is used in contexts that ask for confirmation, thus the truth value of *p* is what is being asked. Therefore the use of external negation is expected. As for the requirement of a
The Sicilian negator also has the typical reading of wide scope, external negators, as shown by the example in (47). For the wide scope reading to be true, as explained in section 2.2, it must be the case that the number of questions that were answered is any number which is not 3:

\[(47)\quad \text{neca arrispunni a tri dumanni ncapu a deci neca answered.3sg to three questions on to ten} \]

‘It is not the case that he answered 3 questions out of 10.’ (n\neq 3)

Garzonio and Poletto (2015:141) propose an analysis for neca similarly to the way the negator lāw in JBA was analyzed earlier in this paper. According to their proposal, “the complex negation-copula-complementizer sequence is re-analyzed as a unique functional projection (we assume it is a Focus projection), with respectively the negative marker and the copula in the specifier and the complementizer in the head; then the whole FP is lexicalized as a single functional word (a well-known development in diachronic morpho-syntax).”\(^\text{12}\)

\[\text{presupposition, note that while standard polar questions do not register any commitment (see Farkas & Bruce 2010) in negative question with neca there is some commitment that "not } p \text{" is what is expected to be true, but there is a lower commitment, and therefore confirmation is asked. In this sense, this use of neca is different that the presupposition contains the negation. The use of the external negation, is, however, expected.}\]

\(^\text{12}\) The diachronic derivation proposed by Garzonio and Poletto (2015:141) is in (i). For them the negation and the copula start off together in SpecFocP and then fuse to one negator in a later stage; The final position is similar to what we propose for lāw, but Garzonio and Poletto (2015) adopt a monoclausal analysis for clefts with the copula and the negator in the left periphery. However, as discussed in footnote 6 Haegeman, Meinunger and Vercauteren (2015) point out problems with monoclausal analyses and argue for a biclausal approach.

\[(i)\quad \text{a. [Spec Focus } [un \, \dot{e}] [Focus° ca][TP ...]] \]
\[(i)\quad \text{b. [FocusP neca [TP ...]}\]
It has been demonstrated that JBA lāw is incompatible with wh-question words and this fact supported an analysis of the negator as a left peripheral focal negator. The same can be shown for neca. Our informant confirmed that neca is incompatible with regular wh-questions (48)-(49). Only clefted wh-questions are compatible with neca, (49)-(51):

(48) *A chi neca arrispunni?

to what neca answered.3sg

(49) *A cu neca arrispunni?

to whom neca answered.3psg

(50) A chi jè ca neca arrispunni?

to what is that neca answered

‘What is it that he (surely) didn't answer to?’

(51) A cu jè ca neca arrispunni?

to whom is that neca answered.3psg

‘Whom is it that he (surely) didn't answer to?’

When neca co-occurs with the standard negator, it can also give rise to double negation, just like lāw in JBA and it can license n-words in object position, (53), showing it really contributes negation.

(52) Neca unn’ arrispunni a tri dumanni ncapu a deci neca not answer.pst.3sg to three questions on to ten

‘(Surely) he didn’t not answer three questions out of ten’

(53) Neca fici nenti
neca  I-did  nothing

‘I didn’t do anything.’

In light of this we would like to propose the following:

1) *neca* reflects a diachronic change from a contraction of three morphemes to a single morpheme (negator), which also involves – in line with what we proposed for JBA - a structural change from a bi-clausal to a mono-clausal construction.

2) *neca* can be analyzed as an external negator, a negative marker merged in SpecFocP, in line with our analysis of JBA *lāw* and the proposal made by Garzonio and Poletto (2015).

Table 2 summarizes the properties of *neca* alongside those of *lāw*.13

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<th><em>lāw</em></th>
<th><em>neca</em></th>
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<tbody>
<tr>
<td>derived from cleft</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>indicating ~p, when p is presupposed</td>
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<tr>
<td>in rhetorical question</td>
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<tr>
<td>in antecedent of conditional counterfactual</td>
<td>☑</td>
<td>Not enough data</td>
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<tr>
<td>can co-occur with standard negator</td>
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<td>double negation with standard negator</td>
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<tr>
<td>clause-initial position</td>
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<tr>
<td>Not compatible with wh-questions</td>
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<tr>
<td>appears in environments in which negation is always interpreted with wide scope</td>
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Table 2: the characteristics of JBA *lāw* and Sicilian *neca*

*neca* and *lāw* are both derived from clefts and seem to express ‘external negation’ semantically, whereas they are syntactically still within CP, but high up in the left periphery, more specifically in the specifier of a Focus Phrase, capturing the fact that these negators are applied to a proposition that was already part of the common ground, and as such they always have a wide scope reading.

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13 There seems to be one difference between *lāw* and *neca*: while the former appears in response to questions (4-5), the latter does not. However, as noted, this may not be a significant difference, as in fact it is more likely that in JBA this is a remnant of Stage 1 (as it is in real cleft-sentences, 17), and should be interpreted as an independent sentence with the meaning "it is not true". *Neca* could not appear in such a context, since it contains the complementizer *ca*, and therefore it does not fit such contexts.
5. Conclusion

This paper discussed the development of the negative polarity marker lāw from a negative cleft in JBA. It was argued that the trigger for the development was a process of phonological univerbation: a cliticization of the agreement clitic –hu with the standard negator lā, which were subsequently reanalyzed as a single morpheme, i.e. as a negator. The semantics of this new negative marker differs from the regular standard negator in that the negation takes wider scope than the scope of a standard negator: it contributes external negation (in fact lāw in stage II retains the semantics of Stage I). On the basis of its incompatibility with wh-constituents and its wide scope interpretation with respect to universal quantifiers, it was argued that the grammaticalized negative marker lāw gets basegenerated in a left peripheral position FocP of a monoclausal structure. This analysis does not only capture its incompatibility with wh-consitents, but also captures the wide scope external negation reading and its status as a negative focal operator, which gives rise to a presupposition, i.e. the non-negated p is already part of the common ground. Moreover, it was proposed that this fact was relevant for the reanalysis, since wide scope negation and the interaction with the presupposed p, were already part of what characterized lāw in the earlier stage. Thus, the same sentences, with similar semantics, could be associated with two syntactic structures. In addition, we broadened the empirical scope and showed how the properties of lāw resemble the properties of the Sicilian Mussomeli neca (Cruschina 2010, Garzonio and Poletto 2015), for which Cruschina (2010) argued that it is derived from a cleft and for which Garzonio and Poletto (2015) have argued that it is basegenerated in SpecFocP.

This research predicts that negative clefts may provide the ideal context for the emergence of a new negator. What we do not know at present is how common this pattern is and whether there are languages where this type of negator becomes the standard negator. More research from a crosslinguistic perspective is needed for that. In addition, this paper presents the syntactic reanalysis as a consequence of the fact that two different syntactic structures have the same semantics. The reanalysis in this particular case involved a shift from a bi-clausal structure to a mono-clausal structure. It would be interesting to examine whether this is always the direction of change, and whether this principle can be derived from some broader principle of reduction in complexity. (See Bar-Asher Siegal (forthcoming) for another example of such a phenomenon with expressions that contain negation.)
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