

# The Biconsonantal Semitic Lexicon

## 1. The Series /ʔ-X-/\*

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[The paper represents the first instalment of a series of about thirty planned studies on the whole corpus of biconsonantal Semitic ‘roots’. The aim of these studies is, on the one hand, to identify such clusters as actual lexical units in the Semitic lexicon and, on other, to determine their productivity in terms of lexical expansions. To achieve this, all the biconsonantal ‘roots’ will have been empirically scrutinised by searching for all their possible combinations with the ten ‘morphemic’ determinatives (/ʔ, h, l, m, n, r, š, t, w, y/) in all three possible positions: prefixed, infix, and suffixed. This search has been carried out on the basis of the generally accepted dictionaries of the Semitic languages, ancient and modern, taking into account phonological and semantic feasibility as well].

### 0. Introduction

#### *a) Premises*

From the phonetic point of view, a Semitic lexical unit can be defined as a ‘polyphone(me)’ or cluster of phone(me)s. The minimal unit is formed by consonant+sonant/vowel, corresponding to an open syllable, and the total number of such units is equal to the monoconsonantal series of lexical units. We have already dealt with this series and its capacity to form lexical units in Semitic<sup>1</sup>. In fact, the number of Semitic monoconsonantal designative lexemes is extremely low, possibly almost null, as predicted by Diakonoff<sup>2</sup>. It is restricted almost to the functorial series, and in any case it is far below the possible total. This series probably goes back to a pre-Semitic level which cannot be traced with any degree of certainty. In this regard, however, the functorial monoconsonantal series is very productive in Semitics, on both the

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1. Cf. G. del Olmo Lete, “The Monoconsonantal Lexical Series in Semitic”, *AuOr* 16, 1998, 37-75.

2. Cf. I.M. Diakonoff, “Problems of Root Structure in Proto-Semitic”, *ArOr* 38, 1970, 460ff. (“To sum up, a monosyllabic primary root morpheme can include: (1) two phonemes, the first being either a non-sonorant or a sonorant, the second necessarily a sonorant”).

morphological and lexical levels, mostly in the ‘deictic’ series, such as the pronominal series<sup>3</sup>, many of its items being deictic clusters in nature. These functorial elements are also sometimes found as lexical constituents in lexicalised syntagms<sup>4</sup> and above all as ‘determinative’ expansions of biconsonantal bases.

In principle, these biconsonantal bases represent phonetic clusters of two consonants and two sonants/vowels, with four phonetic positions in all, with the inflected morphophonemes in final position. With this series we now enter an almost generally accepted dimension of the Semitic lexicon<sup>5</sup>. If we are able to delimit it, then we will have a very important etymological access to the third and more significant root corpus of the Semitic lexicon, the triconsonantal set, many of its items apparently being expansions of the previously defined biconsonantal bases. The organisation of the general Semitic lexicon can then proceed in a more logical and systematic way: from the minimal to the more complex phonetic/phonemic constituents<sup>6</sup>. It will help, then, to determine the semantic function of the expansive morphemes and of the resulting expanded patterns. In any case, we have to keep in mind the indissoluble relationship between phonology and semantics and also to remain within the limits of a well-controlled level of a structured language within the framework of a well-defined phonetic table. In this way we will avoid remote comparisons (with languages in other families), which would ultimately take us right back to glottogony (i.e. the very origin of language) or expressive phonetics<sup>7</sup>. If sometimes we adduce comparisons from Afro-Asiatic or even from ‘Nostratic’, that will be only in order to corroborate an etymology at an illustrative level and not to provide its foundation. In this respect, the Semitic subfamily is a late linguistic system which appears fully organised in its phonological and morphosyntactic constituents.

The usual reference to the ‘intensified’ realisation of the biconsonantal bases implies that often the ‘simple’ base is not actually documented. In such cases, the biconsonantal base is also an ‘abstract’ as a ‘root’. We are dealing then with hypothetical lexical units, which in this sense take us somewhat beyond the Semitic horizon to a deeper and more remote level of comparison. This means that pure Semitic etymology will often be a ‘penultimate’ inquiry, but nevertheless valid in itself and critically indispensable, in order to guarantee the realisation of such a broader etymological enterprise. And more importantly, it remains under control, phonologically and semantically.

Another problem that has to be faced is the determination of the functional nature of the etymological items. Are they ‘originally’ nouns or verbs, are they designative or predicative? Leaving aside the question of which is first<sup>8</sup> and also the clear-cut and restricted category of the ‘primary nouns’, a category assumed

3. Cf. G. del Olmo Lete, “The Semitic personal pronouns. A Preliminary Etymological Approach”, in Y. Avishur, R. Deutsch, eds., *MICHAEL. Historical, Epigraphical and Biblical Studies in Honor of Prof. Michael Heltzer*, Tel Aviv 1999 (This study now needs to be brought up to date).

4. Ar. *ḡā’a bi* > *ḡāba* is a typical example; cf. A. Zaborski, “Biconsonantal Roots and Triconsonantal Root Variation in Semitic: Solutions and prospects”, in A.S. Kaye, ed., *Semitic Studies in Honor of Wolf Leslau ...*, Wiesbaden 1991, vol. II, p. 1681; L. Edzard, *Polygenesis, Convergence and Entropy: An Alternative Model of Linguistic Evolution Applied to Semitic Linguistics*, Wiesbaden 1998, p. 174.

5. Cf. G. del Olmo Lete, *Questions de linguistique sémitique. Racine et lexème. Histoire de la recherche (1940-2000)* (Antiquités sémitiques V), Paris 2003, pp. 91-137; and the articles by Zaborski and Edzard quoted in the previous n.

6. Cf. G. del Olmo Lete, “An etymological and comparative Semitic dictionary. Phonology versus semantics: questions of method”, in *Proceedings of the International Colloquium on Comparative Semitics. Barcelona, 19-20 November 2004*, in the press.

7. This seems to be the claimed depth of etymology in keeping with its illimited comparison (nostratic) range, according to U. Rapallo, “La parte alta del corpo nella preistoria delle lingue”, in P. Marrassini, ed., *Semitic and Assyriological Studies Presented to Pelio Fronzaroli by Pupils and Colleagues*, Wiesbaden 2003, pp. 560-584, especially pp. 579ff.

8. On this cf. G. del Olmo Lete, *Questions de linguistique sémitique*, pp. 49ff.

here without further criticism<sup>9</sup>, we take for granted that the functions of nouns and verbs are simultaneous from the viewpoint of historical linguistics. Both functions represent the morphosyntactic articulation of the original inflected character assumed historically by this linguistic branch; a further horizon lies beyond our present inquiry. The fourth position of the biconsonantal unit is precisely this articulation, which consequently will be left undetermined<sup>10</sup>. Historically, each language will develop its own aleatory system of lexical realisation, starting from the ample set of possibilities presented by the structure of the general or common Semitic system. This affects not only the morphological use of the base, but also its mere presence in the lexicon of each language. In the present study, all the biconsonantal bases attested in any Semitic language are collected, with the presupposition that all of them are or may be original Semitic lexemes<sup>11</sup>.

All these phonological requirements of the original bases shape the iconic features of their referential contents, i.e. the original semantics of any of them. In this respect, if we speak of ‘basic seme’, we do so from a more or less exact ‘componential analysis’ or search for ‘semantic indicators’. Against a widespread view, our intention is not to reproduce the ‘original meaning’, often unattainable and of necessity always ‘concrete’, but to uncover the functional load of such a meaning. This function underlies its concrete meaning and explains the shifts or ‘radical metaphors’ present in the various semantic systems and born from the different environmental situations of the speakers. In this sense, the ‘basic seme’ (BS) is the semantic correlate of the ‘root’: an abstraction or metalinguistic element, not an item of the ‘original’ lexicon as such<sup>12</sup>. Taking this into account, the semantic field (SF) is also indicated only for the original base; the derived bases are believed to be self-evident in the semantic development or to be explained from the point of view of the historical lexicon of each language and dialect.

Semantics, above all the analytical semantics of a dead language with no living speakers<sup>13</sup>, will always be ‘subjective’, that is to say, it will always start from the fixed socio-cultural system of our own apprehension of reality, distant and different in many aspects from that of the language under study. To bridge the gap, we must follow a path that is not always clearly marked. The semantic shift that presides over this evolution and becomes the normal and ‘economic’ way of language development has no fixed rules and depends heavily on the psychological situation and perception of the group which generates it. This perception is to a large extent situation-dependent and unpredictable. The fragmentation, analysis or decomposition of the meaning is the only ‘objective’ tool we have to trace this development. In this way both the origin of this meaning (causality) and its fragmentation (aspect) can be ascertained. They are the two basic forms of *metonymy*. Also, the transposition of meaning, in the global structure of the presumed parallel semantic field or in its functionality (levels of comparison), can have taken place. This is the function of *metaphor* in its multiple forms. With it we enter the even more ‘subjective’ and almost free mechanism of semantic shift, for which there are no fixed rules either and which adds to the basic ‘subjective’ nature of the language as the coordinated perception of reality. Metaphor, which in the long run becomes ‘lexicalised metaphor’, is the foremost mechanism of the development and ‘enrichment’ of

9. PrimW are considered those semantical universals which are non-productive as predicative ‘bases’, aside from denominative use.

10. There are of course other morphemic positions (prefixed and infix, internal and external) to carry out the whole inflected articulation and we do not wish to discuss priorities in this connexion.

11. In this regard, the many onomatopoeic bases, above all SS, may be considered late lexical innovations.

12. Cf. in this connexion G. del Olmo Lete, *Questions de linguistique sémitique*, p.189ff., and pp. 142ff. on Barr’s opinion; cf. in this regard also J.F.A. Sawyer, “Root-meanings in Hebrew”, *JSS* 12, 1967, 37-50.

13. Cf. G. del Olmo Lete, “Problemas de la traducción de lenguas sin hablantes (Desde la perspectiva del Semítico Occidental)”, *AnFil* 26, E, 2004, pp. 9-23.

language. Its ‘economic’ character, then, dispenses with the creation of new lexemes, matching its creative nature, which makes of the linguistic evolution of any language not only a functional and practical process, but also one that is creative and poetic. Denomination or reference turns into connotation and intelligibility. Through the interplay of multiple level references or comparisons, ‘meanings’ acquire ‘sense’.

### b) Treatment

As for the actual organisation of this paper, the basic *default lexical sources* used in it are listed below<sup>14</sup>. Unless otherwise indicated, the lexical data *literally* come from them. In this way we can avoid quoting the source in each case. I have generally preferred medium-sized lexica written in English, on the one hand to avoid a further link in translation and on the other to put forward the primary and commonly accepted meanings, leaving aside the many semantic variations to be found in the larger source and context dictionaries. These are quoted occasionally, in order to point out semantic nuances that may be useful to trace the shifts that the basic seme experienced in some languages, above all in the case of remote comparisons. These and other bibliographical items are all given in a second list. This list has been kept to a minimum by referring to the principal dictionaries (AED, CDG, DRS, HALOT, etc.) of some individual languages which provide information on the traditional discussion on each lexeme. We have kept to the empirical data, reducing to a minimum the discussion of other opinions and leaving the reader to appreciate how much of what has been adopted here is appropriate.

First, each of the biconsonantal clusters of the series /ʾ-X-/ has been submitted to an analysis of its simple phenotype (where attested) or its intensified phenotype in any of its second (-v-) or third (C<sub>2</sub>) positions and also in any of its possible (re)duplicated or geminated phenotypes (/ʾ-X<sup>2</sup>-X-/). We assume that these phenotypes are the actual witnesses of an originally simple biconsonantal root/base, that normally shows a strong tendency to internal expansion, here defined as ‘intensification’, a well-known trend operative at the morphological level in all the Semitic subgroups, specially in South Semitic (the Ethiopic languages).

Second, as in the sample already provided<sup>15</sup>, the biconsonantal clusters identified in this way will be tested against a table of 10 expansive morphemes, recognised as such at the morphological level<sup>16</sup>. They are as follows:

14. We have excluded Modern Hebrew, because from the etymological point of view its lexical material is found in Biblical and Middle Hebrew and in Aramaic and Arabic. The new lexical creations and adaptations are clear in their origin and belong to a historical dictionary. On this aspect cf. E. Klein, *A Comprehensive Dictionary of the Hebrew Language for Readers of English*, Jerusalem/Haifa 1987. Also Arabic dialects have been put aside for the time being.

15. Cf. G. del Olmo Lete, “Notes on Semitic Lexicography (III). The Proto-Semitic Base (/dal-/) and its expansions”, *AuOr* 21, 2003, 205-212.

16. On the special cases of /n/ and /r/ in this connexion cf. W. von Soden, “n als Wurzelaugment im Semitischen“, in *Bibel und Alter Orient*, Berlin, 1985, p. 109-12 (reprint of 1968); W. Eilers, “Zu Resch als Wurzel-determinative (r-)”, *OS* 37-37, 1987-1988, 39-45; B. Kienast, “Weiteres zum r-Stamm in dem Akkadischen”, *JCS* 15, 1961, 59-61; also, although not directly connected with the present treatment, cf. M. Fraenkel, “Bemerkungen zum hebräischen Wortschatz”, *HUCA* 31, 1960, 72-101 (“Das ‘Reš’ als Dehnzeichen in den Quaternärstämmen”). More generally, the contributions by S. T. Hurwitz, *Root-Determinatives in Semitic Speech. A Contribution to Semitic Philology*, New York, 1913 [reprint 1966]; S. Moscati, “Il biconsonantismo nelle lingue semitiche”, *Biblica* 28, 1947, 113-135. On the other hand, the general approaches of Fraenkel and Ehret to the origin of IIIy weak verbs and to Hamito-Semitic reconstruction respectively seem to be too speculative; therefore I prefer not to include them.

/XaZ-/	/ʔ/	/h/	/l/	/m/	/n/	/r/	/š/	/t/	/w/	/y/
Prefix	/ʔXZ/	/hXZ/	/lXZ/	/mXZ/	/nXZ/	/rXZ/	/šXZ/	/tXZ/	/wXZ/	/yXZ/
Infix	/XʔZ/	/XhZ	/XlZ/	/XmZ/	/XnZ/	/XrZ/	/XšZ/	/XtZ/	/XwZ/	/XyZ/
Suffix	/XZʔ/	/XZh/	/XZl/	/XZm/	/XZn/	/XZr/	/XZš/	/XZt/	/XZw/	/XZy/

Besides these possible expansions of the biconsonantal lexemes in the three possible positions (prefixed, infixed, suffixed)<sup>17</sup>, which is the main subject of this article, the triconsonantal Semitic lexicon, also exhibits the well-known series of bases sharing two consonants, with a semantic relationship of varying strength. Once the biconsonantal series has been isolated, we will be able to ascertain whether this shared cluster has any correspondence in the biconsonantal series or whether the triconsonantal roots/bases sharing it have to be taken as aleatoric ‘allotheses’, generated either by phonetic variations within the same articulatory group or by alternative dialectal resonances, due to the functions of stress or to other analogical causes. In any case, we leave out of consideration this third class of ‘expansions’ of a hypothetical shared biconsonantal cluster. This is not, properly speaking, a radical expansion, but must be labelled the alternation or allothesis of a base that was triconsonantal in origin<sup>18</sup>. The analysis of this lexical class already corresponds to the compilation of a global comparative and etymological lexicon of the Semitic languages. We intend only to provide some contrasted material prior to this compilation, namely, the series of biconsonantal bases and their certain or probable expansions. Only one ‘original’ biconsonantal lexeme/semi with two possible contrastive vocalic realisations (/a::ə/) is assumed, leaving aside ancient or late onomatopoeias, often limited to one language or linguistic family.

This is the first instalment of a series of about thirty studies, the aim of which is to revise the whole Semitic lexicon and of which a first more detailed draft has been already set out<sup>19</sup>. The treatment here will be more sober and ‘algebraic’, and does not take account of the implicit explanations to emerge from the draft. This form of publication will make it possible for any useful criticism received to be included in the final redaction. Also the complete tabulation of the results, as far as the bearing of each expansion morpheme is concerned, will be left to the final article in the series. In the meantime, only a summary sketch is provided.

## The Series /ʔ-X-/

### /ʔvB-/

#### 1a - First level: a) simple base

/ʔaB-/ 1) **PrimW** with frequent conson. intens. < /ʔab-/ 1 > /ʔab(b)-/, CS. **BS**: ‘generative and social male principle (life and power)’ > father, progenitor, head of the stirps, chief: **Akk.**: *abu(m)*, pl *abbū*, ‘father’, *abbūtu(m)*, ‘fatherhood’; **Ebl.**: *a-bu*, ‘father, one who is responsible’ (TIE I 3, 6-7); **Amor.**: ‘*ab*, ‘*aba*, ‘father’ (AOAT 271/1:406; ARES 3:200f.; APNMT:154); ‘*abum*, ‘father’ (CAAA:13);

17. Cf. W. Eilers, “Die zweiradikalige Basis der semitischen Wurzel”, in H. Jungraithmayr, W.W. Müller, eds., *Proceedings of the Fourth International Hamito-Semitic Congress, Marburg, 20-22 September, 1983* (ASThHLS; Series IV: Current Issues in Linguistic Theory, 44), Amsterdam / Philadelphia 1987, pp. 509-524.

18. On the problems involved here cf. G. del Olmo Lete, *Questions de linguistique sémitique*, pp. 126ff. In my opinion, to consider all the triconsonantal bases as third radical expansions is out of place; cf. C. Ehret, “The origin of third consonants in Semitic roots: an internal reconstruction (applied to Arabic)”, *JAL* 2/2, 1989, 107-202.

19. Cf. G. del Olmo Lete, “Notes on Semitic Lexicography (II). The Proto-Semitic Base (/dal-/)”, *AuOr* 20, 2002, 99-113.

**Ug.:** *'(a)b (>'(i)b)*, 'father, ancestor'; **NWS:** Phoen.-Pun., EpHeb., Moab., EpAram. *'b*, 'father, ancestor(s)'; Hat.: *'by*, 'lord, patrician' [*<* Phoen. *'bt*, 'a father's (legal) power, status of a father'(?)]; **Heb.:** *'āb* (pl. *'ābōt*), 'father, progenitor'; **Aram.:** JPAram. *'b(')*, 'father, ancestors'; JBAram. *'āb'ā*, 'father, common factor'; *'īb'ā*, 'father' (DTT:44); JA *'b*, 'father', pl. 'ancestors'; Syr. *'abā*' (pl. *'abb'hātā*), 'father'; Mand.: *ab, aba* (pl. *abahata*), 'father'; NAram.: *'abā'/'ā-wā*; *'ābo*, 'father' (TVSyCh); **ESA:** Sab. *'b* (pl. *'abh, 'abw*), 'father, ancestor', *'abwt*, 'ancestry, agnates'; **ENA:** Saf., Lih., *'b*; Tham. *'abwt*, 'fatherhood' (DRS:1); **MSA:** Meh. (*h*)*āyb, (h)awb, 'īb*, 'father', (*h*)*ābū*, 'people'; Jibb./Soq. /'b/: *'iy'/'ētā'/'iif*, 'father', *'eb'/'ētā'/'āb*, 'big', /'bw/: *yə, eyə'/'āfo*, 'people'; **Ar.:** *'abū*, 'father', *abbū*, dialect. variat. of *'abū*, 'a father'; **Eth.:** Ge. *'ab* (pl. *'abaw*); Tig. *'ab*, 'father' [cf. suffix. expansion *ābāne*, 'der Starke, der Hervorgehende'(?); and by semantic (*<* /'ab(b)ōt/) or phonological contamination (*<* /'m(m)/) *abot*, 'Großmutter']; Tigñ.: *ab(u)*, 'father, ancestor, progenitor'; Amh.: *ab*, 'elder, forefather, Eternal Father' [*>?* *abet*, 'yes, Sir!, here I am!']; Gur. *ab*, 'father, owner'.

Apparently onomatopoeic (infantile) in origin (with the allophonic alternations /b:p/), with many semantic developments and attributions, social and religious, in most languages, Semitic and non-Semitic. One of the 'six' nouns with a long suffix vowel (except in Meh.), probably due to secondary (compensatory [*'ab-* *>* /'ab(b)-/ versus /'ab-/ *>* /'ābū/]) and analogical expansion ([*<* *'ābiyu* *<* /'abū/, 'who decides' (?)]), since it affects the inflexional position (for a discussion cf. MacDonald 1963-1965:63-85; Schub 1978:223-225; Voigt 1988:64ff.; Voigt 2002:37-44; DRS 1; marker of pl. and coll. [?]).

A particular semantic shift by intens., not attested as an independent predic. base (*<* 'to act as a father, generator'), may occur in Akk. *abunnatu(m)*, 'umbilical cord' (AHw 9) (?); also Eth.: Tig.: *atābā*, 'to cut the umbilical cord', Amh.: *attābā* I, 'to cut the umbilical cord of a newborn baby', 'to brand government cattle with a brand which shows they are government property', 'to mark one who is baptized into the faith as a member of the Christian community', 'to indicate or mark s.th. as one's private property'; variant *attamā*'. - **AA:** \*'ab-, 'father', attested in all the families (*Essai* 77; HSED 1; Murtonen 1989:79). - **Nostratic:** \*'ab- 'father, forefather' (NM 572f.). - **SF:** Family relationship.

### 1a - First level: b) intensified base

/'**āB-**/ 1) Denom. deriv. by vocal. intens. *<* /'ab-/ 1) *>* /'āb-/ , as quantitative opposition of length (?), NWS. **BS:** 1) cultural development from 'father' to 'ancestor': **Ug.** *'ab*, 'ghost, spirit' (// /'ab-/; cf. *aby*, 'ancestral' (?); but cf. Dietrich/Loretz UF 34 2002 937f.: 'gar nicht existiert'); **Heb.** *'ōb* (*<* /'āb-/), 'spirit of the dead' (cf. the idiom 'to be gathered to his fathers'); **Aram.:** JPA *'ōb, 'ūbā*', 'necromancy/necromancer' (DTT:21); JBA *'ōbā*', 'underworld spirit', 'necromancer (*'wb' ṭmy*' *<* Akk. *eṭemmu*, DJBA 84/506) . - 2) KW by semantic shift from *<* /'āb-/ 1) *>*, monthn., ES/NWS: the 5<sup>th</sup> Babylonian month, the 11<sup>th</sup> Jewish month: **Akk.** *abu(m)*; **Emar.** *abī* (Fleming 2000:174ff.); **MHeb.** LW *'āb* (DTT 1); **Aram.:** JB/PA *'ab*, 'Av, the eleventh month'; JA *'b*, 'Av, the fifth month'; Syr. *'ab*, 'month of August'; Mand. *ab*, 'month under the rule of Leo'; **Eth.:** Ge. *'ab*, 'the fifth Jewish month'.

Uncertain etymol.; alternatively *<* LW/KW *<* Akk. *ab/pum* , 'hole, opening (in the ground)' *<<* Hitt. *api-*, 'Loch, im Boden, Opfergrube' (HEG 47), possibly a phonetically conditioned second millennium LW. Less likely *<* Ar. /'wb/, 'to come back' (AEL 123-124; cf. HALOT 19, DRS 11; Murtonen 1989:84). Cf. DRS 1; HRCohen 1978:73f; MECohen 1993:319ff., 343f. (in relation to late Akk. and Hitt. *ab/pu*); Ebach/Rüterswörden 1980/1977; Loretz 2002:481ff. (Ug. *'ap*); Tropper 1989:189ff. The evidence from Emar.

*abû* is ambiguous (cf. Fleming 2000:186ff.). Also the relationship to **AA** \*ʔab-/ʔub-, ‘to fall, descend’, on the basis of some Chad. and Cush. dialects, is not very compelling (HSED 2).

/ʔ**aB**-/ Denom. deriv. by conson. gemin. < /ʔab-/ 1) > /ʔabb-/, CS. **BS.**: ‘primordial, generating water’: **Akk.** *abūbu(m)*, ‘flood, deluge’ (cf. *abbu*, ‘swamp?’); **Aram.**: Mand. *tababia*, ‘storms, hurricanes’; **Ar.** ʔ*ubābu*, ‘vague, flot, grande masse d’eau’ (DAF 2); **Eth.**: Ge. *ʔababi*, ‘wave’.

Cf. Ge.-Amh. ʔ*abāwi/ʔabāy/abbay*, ‘(father) blue Nile’ < /ʔabaw:ya/, as complementary expansions (cf. DRS 1); but cf. AED 1203, possibly < /ʔby/, ‘the big one’. The conson. intens. is also found in /ʔab-/, especially in pl. forms. It is more difficult to determine the relationship of this cluster to Pers. *ʔāb*, ‘water’ (CPED 1ff.).

## 2a - Second level: expanded base

Of the possible prefix. series, WS /šʔb/:. Ug., Heb., Aram., ESA ‘to draw water’ and Ar. *saʔaba*, ‘to squeeze’, ‘to widen a skin for water’, *saʔiba*, ‘to be satisfied by drinking’, show only a remote semantic relationship to /ʔab-/ through /ʔab-/. Ar. *šuʔbūbu*, ‘shower, rain’ (AEL 1489) could represent such an expansion; cf. Ar. ʔ*ubābu* (*supra*), but as a prefix. /š/ expansion they would be phonetically anomalous in Ar. and on the other hand, this lexeme is not attested in NWS, indicating a LW. Instead the meaning ‘impetus, sharpness, vehemence, force’ seems to be a secondary metaphor. shift. In any case, it would be a very old expansion or rather an original triliteral base of **AA** origin: cf. Eg. *šwbty*, ‘a jar’, and maybe Eg. *s3b*, ‘cross water’.

The suffixed series presents some clear radical expansions (/w:h/). The alternative form of suffixation clearly shows the expansive character of the base.

/ʔ**aBaWa**/ Denom. predic. expan. suffix. < /ʔab-/ 1) > /ʔab(a)+wa/, WS/SS. **BS.**: ‘to become a father’: **Ar.** ʔ*abā(w)*, ‘to become a father’, > *istaʔabba*, ‘to adopt as a father’, possibly in contrastive distribution with /ʔabaw:ya/; >(?) ʔ*ubbiyyatu*, ʔ*ibāʔu*, ‘self-magnification, greatness, majesty’; **Eth.**: Amh.: >? *abāy* or *abəy*, ‘one who feeds’, *abbayye*, ‘daddy!’.

A semantic derivation is possibly to be seen in JPArAm. ʔ*bw*, ‘stick with a metal point’ (DJPA 32); and in Sab. *tʔby*, ‘permanent residence’ // ‘ancestral boasting’.

/ʔ**aBaHa**/ Denom. predic. expan. suffix.(?) < /ʔab-/ 1) > /ʔaba+ha/, SS. **BS.**: ‘to act as a superior authority’/‘to make s.o. father’ > appoint a subordinate, give authority, entrust’: **SAE.** Sab. ʔ*bh*, ‘appoint s.o. as an official’.

Other secondary nominal suffix. derivations may be seen in Tigñ. *ab-ša*, ‘term of respect used in addressing or referring to a woman older than the speaker’, and in Mand. *abual*, ‘offspring, young creature’. Also a suffix. /-r/ expansion may be seen in CS /ʔbr/, with the semantic connotation of ‘strength’, mainly sexual: **Akk.** *abru(m)*, ‘strong, robust’, ‘wing, fin’; Ug. *ibr*, male animal, ‘bull, horse’; Heb. ʔ*abbîr*, ‘strong’, ʔ*ēber*, ‘wing’; MHeb. ʔ*ēber*, ‘limb, membrum virile’ (DTT 9); JAram. ʔ*ēber*, ‘limb’; ʔ*ēbārā*, ‘limb, membrum virile’ (DTT 44); Syr. ʔ*ēbrā*, ‘limb, member’; Ar. ʔ*ibratum*, ‘(extremity) member’ > ‘needle’ (< ‘that stings’); and possibly by enant. (?) Tigñ. *abbārā*, ‘to be/become old’. This expan. may be also documented by **AA**: Eg. *ibr*, ‘stallion’, ʔ*a-bi-ra*, a Sem. LW (Benz 1971 507); Chad. *abər*, ‘young animal in its prime’ (cf. Murtonen 1989:81).

**1b - First level: simple and intensified base**

\***/ʾab-**/ The simple original base is not attested, only the conson. nom./predic. intens. < /ʾab-/ > /ʾabb-/ , SWS. **BS.:** ‘to want, to desire, to take a decision’: **Ar.** *ʾabba*, ‘tended, directed his course, determine’; *ʾabbu*, ‘intention, projet’ (DAF 2); > /ʾa:ib(a)b-/ > ‘desire’ > *ʾa/ibābatu*, ‘way of acting, conduct’, and by multiple suffix derivation, *ʾibbānu*, ‘time of preparing or making ready’; also **Eth.:** Ge. *ebbä*, ‘to refuse, disobey’ (by enant. contrast. alternation of *ʾabaya*).

Cf. Hurvitz 1913:77; Zaborski 1971:53-54. Moscati 1947:133 presupposes a root /hb/, an alloph. of /ʾb/; cf. *infra* - The isosemantic series or ‘chain’: ‘to will > desire > love > decide’, can be best appreciated in the polysemy of Sp. ‘querer’, as a reflex of a diversified exercise of will. The possible relationship to /ʾab-/ 1) is not clear (‘to decide’ > ‘to act as a father/chief’; ‘to prepare himself for a journey [the first decision of a beduin chief]), taking us back to a pre-Semitic level; cf. Eg.: *3bi*, ‘to desire, wish for’, *3bw*, *3bt*, ‘desire’ (cf. *infra* /ʾabaya/); so for the moment it is preferable to presume two independent radical clusters: a PrimW of onomatop. origin and a nom./predic. base of phonological aleatoric formation (possibly even as a triconson. allothesis). - DRS 1 points to the ‘resonance’ {laryngeal + labial} [/ʾBY, ʾWH, YHB, THB, HBB, HMM/] as a source of allomorphs of this base/semi (?). Cf. also /BB/, /nbb/, for other possible allomorphs (DRS 1) and *infra*.

**2b - Second level: expanded base**

In the expanded series, the set with prefixes exhibits some relevant expansions of /ʾab-/ 2), beginning with the prefix. in EpAram.

**/YaʾaBa/** Denom. predic. prefix. expan. < /ʾab-/ 2) > /ya+ʾaba/, WS. **BS:** ‘to desire’: **Heb.** *\*/yʾb/*, ‘to long for’, *hapax* in the Bible and Qumran (HALOT 381; DCH IV 70) **Aram.:** EpAram. /yʾb/, ‘to desire’ (DNWSI 431); Syr. *yiʾeb*, ‘to desire’, *yawʾābā*, ‘to desire’.

Cf. Hurvitz 1913:89, Moscati 1947:134. To be compared with /ʾabaya/ (cf. *infra*) and also Heb. *tāʾab*.

**/TaʾaBa/** Denom. predic. prefix. expan. < /ʾab-/ 2) > /ta+ʾaba/, WS. **BS:** ‘to desire’: **Heb.** *tāʾab*, ‘to long for’/‘to make repulsive’, *tāʾābāh*, ‘longing’; JAram. *tēʾēb*, ‘to have a desire’ (DTT 1641).

Cf. Hurvitz 1913:95; Moscati 1947:134. Both could be alternative phenotypes of the same biconson. base. The multiple affix. supports this view, although a triconson. allothesis cannot be ruled out here.

The infix series appears to be sterile; its clusters are apparently semantically unrelated either to /ʾab-/ 1) or to 2). Nevertheless, /ʾawb-/ could represent a denom. predic. by vocal. intens./glide < /ʾab-/ 2) as a byform<sup>2</sup> in altern. distrib. of *\*ʾab-*, WS, **BS.:** ‘behaving arrogantly, intensively’ (?): **Ar.** *ʾawiba*, ‘être en colère’ (DAF 67); instead **Aram.:** Syr. *ʾwb*, Etpa. *ʾeteʾawbat*, ‘to burn with desire’, could represent a spont. labialization or simply an allomorph also with prefix. /yʾb/ (cf. *supra*). The varying semantic concurrence of the three phenotypes /yʾb/, /ʾwb/ and /ʾby/ (cf. also /ʾab(b)-/) seems to indicate them to be distrib., altern. expan. of the base /ʾab-/ in the SF of primary subjective reactions. But *non liquet*.

In addition, a second phenotype of /ʾawb-/ could also represent a denom. predic. by vocal. intens./glide < /ʾab-, by enant. distrib. opposition to /ʾab-/ 2) (?), SWS, **BS:** ‘return movement’ (< ‘decision in the opposite direction’): ?**ENA.:** Saf. *ʾb*, ‘to return’ (DRS 11); **Ar.** *ʾāba*, ‘to return, repent, come’; >? meton. derivation Soq. *ʾyb*, ‘to delay, doubt’. Notice the enant. development within this base: ‘desire’/‘refuse’ (cf. *supra*). - For Heb.

'ōb, 'ghost, spirit', cf. *supra* /ʔab-/ 1). It seems that Tig. *erab*, 'family', has no connection with this base, and the same applies to the multiple Tig. allophones of /ʔlb/.

**/ʔaBaYa/** Denom. predic. expan. suffix. < /ʔab-/ 2 > /ʔab(a)+ya/, WS/SS. **BS.:** 'to take a decision, positive and negative: to will/refuse' (but cf. /ʔab-/ 2): **Heb.** 'ābā, 'to be willing > 'satisfy' # 'want' (cf. HALOT 3, for other etymologies; 'abī, 'would that!' could also be taken into account); **NWS:** Phoen. /ʔbyt/, 'desire' (?); **Aram.:** EpAram. *htn'bw*, 'to long for, covet' (< /n'b/, DNWSI 710-711, cf. Heb. /n'p/); JPA 'abey / 'abah, 'to be willing' (DTT 5); **ESA.:** Min. *st'by*, 'refuser' (DRS 3); **Ar.** 'abā(y), 'refused, disliked'; **Eth.:** Ge. 'abaya, 'to refuse, be unwilling (to do), revolt, disobey, decline, say no, oppose, resist, reject, deny, disagree' > 'abuy, 'disobedient', 'abay, 'disobedience'; Tig. 'aba, 'to refuse, deny, hate' > 'abäy, 'enemy'; Tigñ. *abäyā*, 'to refuse', *abäy*, 'to fail, refuse'; Amh.: *abbäyā* 'to disobey, to rebel'; *abäya* 'refractory ox'; Gur. *abä*, 'to give, allow, permit' (EDG 5, see *waba* and the alternative phenotype *ebbä*, 'refuse, disobey').

As pointed out above (cf. \*/ʔab-/ 2), a connection of this expansion with /ab-/ 1 > 'exercise of 'paternal' authority > subjective power 'of the chief', positive and negative', is not self-evident (cf. *Essai* 77; AA [Eg.-Sem.]: original triconson. base; Murtonen 1989:79f.). Cf. Zaborski 1971:53-54, who quotes also the allomorphs /ya'aba/ (Heb., Aram. Syr.) and /ta'aba/ (Heb.).

**/ʔaHaB-/** Denom. predic. infix. expan.(?) < /ʔab-/ 2 > /ʔa+ha+ba/, NWS. **BS:** 'to show a strong desire, love': Ug. *ahbt*, 'love'; **Heb.** 'āhēb, 'to like, love'; **Aram.** , 'ahābā', 'love' (DTT 19).

Cf. Hurvitz 1913:86; Moscati 1947:133 (< /hb/). Other derivations from /ʔab-/ 2) by multiple expan. may be: Aram. 'abbāyā(y), 'prayer' (DDT 6); Mand.: 'abayah ('abayi), 'prayer; reader, preceptor'; cf. **AA:** Eg.: *3bi*, 'to desire, wish for' (CDME 2), *3bw*, *3bt*, 'desire' (GHÄD 3); cf. Murtonen 1989:79f. Also Amor. *abi'anum*, 'poor' (ARMT 10 296); Ug. *abyn*, 'poor'; Heb. 'ebyōn, 'poor' (HALOT 5: 'to be needy'); DDT 5: 'because he 'longs' for everything') could be a secondary deriv. from \*/ʔab/-. However, Eg. *ebyən*<sup>2</sup>, 'miserable, poor', seems to be a Semitic LW (cf. Lambdin 1953:145ff.).

### 1c - First level: a) simple base

This is a new base constructed from same radical cluster /ʔB/ and in vocalic distribution /ə[i:u]/ # /a/ with the former. The possible semantic relationship of this base to /ʔab-/ 1) cannot be confirmed, nor can the claim of a common base.

**/ʔəB-/ PrimW** with possible conson. inten < /ʔəb-/ > /ʔəbb-/ , CS. **BS:** 'vegetal germination': **Akk.** *ab/pu*, 'reed-bed, reeds', *apū*, a spiny plant, *apūtu*, a plant > *inbu*, 'fruit, flower'; **Ug.** 'ib-, 'fruit'; **Heb.** 'eb(b), 'fruit'; MHeb. 'eb (pl. 'ibbīn), 'the young shoots of a tree'; **Aram.:** EpAram.: 'b, 'fruit' (?) (DNWSI 3); JAram. 'ab, '(perhaps) sprout' (DJA p. 29); 'b(?), 'ibbā, '(growing) fruit' (DJPA 73); 'ib'a, 'growing fruit' (DJBA 73); > 'inba', 'fruit, produce' (DTT 80) > by meton. 'inba' / 'nb', 'louse's egg, nit' (DJBA 118); Syr. 'ebbā', 'fruit'; Mand. *aba*, 'product, swelling'; **Ar.** 'abbu, 'herbage', 'desert first fruit', 'whatever vegetable the earth produces'; **Eth.:** Tig. 'abo, 'a plant', 'oba'/'obo, 'tree with edible fruit'; Gur. *eba*, 'kind of tree', *ebbābā* 'bloom, blossom, flower', (*anābbābā*, 'bloom, blossom, flower' [but a possible deriv. < Cush. must be taken into account] and possibly by epenthetic deriv. >? *atāba*, 'a small tree with sweet edible root'; Tigñ. *abo*, 'evergreen tree', *oba*, *obo*, 'a kind of tree'; Amh. *at(t)äbu*, 'a kind of tree which has white flowers'.

Cf. Murtonen 1989:79. Akk. *i/en/mbu(m)*, ‘fruit, flower’, ‘flower(-shaped jewellery)’, suggests a possible dissimilation (/ʾəb-/ > /ʾəbb-/ , /ʾənb-/), rather than a derivation from < /<sup>l</sup>-n-b/, (cf. AHw 234; LS 2). See also JAram. *ʾinḫa*, ‘fruit, produce’ (DTT 80). On the other hand, cf. Ug. *ʾib-*, by metaph. shift > ‘gem, precious stone’ (cf. Lat. ‘gemma’), also > Akk. *eb(b)u*, ‘pure, brilliant’ and. Mand. *aba*, ‘to bring’ > ‘to shine forth’. However, speculations on the correspondence of the bases /<sup>l</sup>-n-b/ and /<sup>l</sup>-n-b/ (< /n-b-/ ) must be set aside for the moment, but possible root contamination should be taken into account. On the other hand, Syr. *hab(b)*, *hawbobo*, ‘to flower’, *habtā*, ‘flower’, may represent another allomorphic base.

Also, a feasible allomorphic expansion and intensification /n{ }bb/ of the same base may be found in Akk. *ebbūbu(m)*, *enbūbu(m)*, *embūbu(m)* (?), ‘flute, pipe’ (cf. *ab/pu*, ‘reed-bed, reeds’, *appu(m)*, ‘tube, socket’); >? MHeb. *ʾabbūb*, *ʾibbūb*, ‘reed, flute, pipe, tube’ (DTT 3); JAram. *ʾabwb’a* (abs. *ʾbwb*), *ʾybwb*, ‘flute’ (DJBA 74; DJPA 32), *ʾabbūb*, *ʾabbūbā*, ‘reed, flute, pipe, tube’ (DTT 3); Syr. *ʾabbūbā* (*tā*), ‘flute’; Mand. *ambuba*, *anbuba* (Ar. LW), ‘tube, flute, (reed-)pipe’; Ar. *ʾunbūbatu*, ‘An internodal portion of a reed or cane’, possible metathesis *ʾubnatu*, ‘a knot in a wood’. This is a multiple prefix. expansion (cf. Akk. and Ar.), with assimilation in NWS (DRS 1f.). Semantically there is an isosemantic chain of shifts: material (reed) > instrument (flute) > sound (cry) (or the other way round: sound < flute < reed, if we accept the onomatopoeic base (-bb) as original; cf. DRS 1f.). - Cf. AA: Eg. *ib*, ‘part of a plant’, ‘a sort of tree’ (WÄS I 60); \*ʾbaw, ‘a plant’ (HSED 2). - SF: Flora.

### 1c - First level: b) intensified base

/ʾ**aB**-/ Denom. predic. and deverb. by conson. intens./gemin. < /ʾəb-/ > /ʾab-ba/, CS. **BS.**: ‘to be fruitful’: **Aram.**: *ʾbab*, ‘to grow, ripen’ (DTT p. 2) > *ʾabbā*, ‘thickets, woods, grove’ (DTT 2); **Eth.**: Tig. *ʾāmbābā*, ‘to flower’; Tigñ. *ʾambābā*, ‘to flower’; Amh. *abbābā*, ‘to flower, bloom, blossom ...’; Gur. *ebbābā*, ‘bloom, blossom, flower’. As deverb. noun by gemin./reduplic. (‘action noun of the previous base’): **Akk.** *ababu*, ‘forest’; **NWS:** Pun. *ʾbb(?)*, ‘spring-fruit’; **Heb.** *ʾābīb*, ‘ear’, by meton. ‘spring’ (< ‘ear time’); **Aram.**: JAram. *ʾabbā*, ‘thickets, woods, grove’ (DTT 2), *ʾabyb* (*ʾabyb’a*), ‘early stage of ripening, spring’ (DTT 5f.; DJPA 32); Syr. *hababā*, ‘flos’ (?) (allomorphic?; cf. *supra*); Mand.: *ababia*, ‘thickets, dense growth’.

Heb.: \*ʾābab, ‘to be thick, to be heavy, to press; to surround; to twist; to be warm, to glow’, quoted by DTT p. 2, does not exist as a verbal base in Biblical Hebrew (cf. HALOT 2). In this connexion, note the correspondence with the resonances /ʾb/, /ḥb/, /gb/, /kb/, /qb/ and /ʾbd/, /ʾbl/, /ʾbq/, /ʾbr/, /ʾbs/, /ʾbh/, /ḥbb/ (cf. also DRS 1, {laryngeal+labial}). However, the option of an onomatopoeic etymon by repetition of the labial (DRS 2) does not seem acceptable. For a possible relationship to the root /<sup>l</sup>-n-b/ cf. *supra*.

### 2c - Second level: expanded base

This base furnishes only a suffixed expansion /-ya/ with a factitive/effective semantic nuance and in clear areal distribution with /ʾ**aB**-/. The NWS semantic development is clearly secondary.

/ʾ**aBaYa**/ Denom. predic. by suffix expan < /ʾeb-/ > /ʾab(a)+ya/, ES/WS. **BS.**: ‘to produce fruit, to fructify’: **Aram.**: Mand. *aba*, ‘to bring out, to swell out, to shine forth’ >> *aba*, ‘product’, ‘swelling’. From this base may also be derived < **Akk.** *apû* II and *apûtu(m)*, ‘a plant’ (cf. Akk. *abu*, *apu*, ‘reed-bed, reeds’ *supra*); *abiyaṅnu*, ‘a plant’ (AHw 6); as well a **Heb.** *ʾēbe(?)*, ‘reed, papyrus’ (*hapax* Job 9:26). - As a metonymic shift from /ʾabaya/ with the **BS.**: ‘result of being fruitful’: **Mand.** *aba*, ‘to be

thick, dark', *aba*, 'darkness, thickness, denseness' > by intens. +expan. *ababia*, 'thickets, dense growth'. Possibly also Akk. *abbuttu(m)*, 'a hair-style'.

The best witness of a semantic shift and radical contamination is to be seen in Mand. ABA I, <sup>C</sup>BA I, 'to be thick, become thick, dense, dark'; ABA II, <sup>C</sup>BA II, <sup>C</sup>BB, 'to bring out, come out, swell out', 'to grow hot, shine forth, glow'. In this connexion, a possible allophony or root contamination with /<sup>c</sup>b/ and the same 'to cover, veil ...' has to be taken into account (cf. *supra* on /<sup>c</sup>ab-/).

An expan. prefix. may be seen in /na'ab-/ as a denom. predic. with privat./enant. < /<sup>c</sup>ab-/ > /<sup>c</sup>na'+ab:pa/, ES. **BS**: 'to lose fertility': Akk. *na'āpu(m)*, 'to be(come) dry'.

### 3 - Homographs/Loanwords

The cluster /<sup>c</sup>b/ offers a series of radical homographs which cannot derive from the bases identified:

Heb. *hapax* 'ōb, 'bag (skin) for wine made of leather', Job 32:19 (HALOT 20) has a possible reflex in Akk. *apu*, 'a leather object', and in the hypothetical Ar. 'awwaba, 'tailleur (le cuir en rond)' (DRS 11) and even in Ar. 'ayyabu, 'porteur d'eau' (DRS 11), not to be found in AEL or in DAE (but cf. Lisan I 143: šāqqā). Cf. also the possible prefix. and infix. expansions: Ar. *sa'bu*, *mis'abu*, 'skin, receptacle of skin', 'ihābu, 'skin, hide'; and the more problematic Amh. *arrābā*, 'to make Moroccan leather' (?). In this sense above all CS /š'b/, 'to draw water (with a skinbag)' (Murtonen 1989:407) could be considered as a possible /š-/ prefix. expansion, linked (?) with Heb. 'ōb, mentioned above. In any case, its derivation from /ab/ 1) > /āb/ > Heb. /ōb/, 'spirit, ghost', is uncertain in respect of the semantic shift involved. Cf. Rubiato/Lara/Gaviria 1991:145-162. The possibility that it is a LW/KW should be taken into account.

Akk. *abbū*, 'swamp fauna' (> *abbu* 'swamp'); JArām. 'ybw, 'an unclean bird'; Syr. 'abbā, 'crocodile' (generically related to Eg. *3by*, 'panther', *3bw*, 'elephant'); Gur. *abba*, 'leopard, tiger'. Also Akk. *abāya*, 'a water fowl', *abbunnu*, 'a kind of bird', *abūtu*, *abūtānu*, 'fish' (AA, cf. *Essai* 77; HSED 3). The water animals may be related to /<sup>c</sup>ab-/ (cf. *supra*), as is fairly clear in Akk.; the other designations may be semantic expansion. Other radical homographs, such as Ar. 'abbaba, 'to shout, scream' (DAF 2), and by metonymic gestural deriv. >? Ar. 'abba (?), 'to be astonished' (DAF 2), Tig. 'abbā, 'to scream, shout', point to an allothesis of /y-b-b/, 'to put out a strong cry' (< /BB/ (?), of onomatopoeic origin; DRS 1f.) as corroborated by Heb. *yibbeb*, 'to lament'; JArām., *yabbeb*, 'to sound an alarm, a trumpet'; Syr. *yabeb*, 'to play the trumpet, to shout with joy, exult'; Ge. *yab(b)aba*, 'to jubilate, shout with joy', (cf. DRS 1f). Also from this allothetic cluster /y:h-b(-b)/ could derive (?) Amh. *eba*, 'monkey, monkey's cry', *anābba* 'to cry, shed tears'. Cf. possibly also Gur. *amb<sup>w</sup>a* \*balā, 'low, moo'. On the other hand, MHeb. *yibbēb*, 'to speak in a trembling voice, to lament' (DTT 560), JArām. *y<sup>e</sup>bab*, 'to sound an alarm' (DTT 560) and Mand. /YBB/, 'to make a hollow sound, to groan', possibly indicate a contamination of bases (/nbb/, /ybb/). Another allothesis may also be found in Ar. *hab(a)ba*, 'to blow the wind'. For Ug. *ib* cf. Heb. 'ōyyēb; Akk. *ayyābu(m)*, 'enemy' < /<sup>c</sup>yb/ in alternation with /w'b/, Ar. *wa'aba*, 'to contract oneself', 'to be disdainful', *wa'iba*, 'to be angry'; in my opinion it cannot be taken semantically as an expan. infix. of /<sup>c</sup>ab-, 'ab-/ (cf. Murtonen 1989:89).

The claimed AA root \*'ab-, 'stone', from which > CS /<sup>c</sup>bn/, on the basis of the only attestation in Cush, is not very convincing (HSED 1f.), especially when another common and better attested AA root \*'abun- is postulated.

Akk. *apītu*, a type of fallow land < *ab/pu*, 'reed-bed, reeds'.

## /ʾaD-/

## 1 - First level: a) simple base

/ʾaD-/ **PrimW** with possible internal intens. < /ʾad-/ > /ʾadd-/ , /ʾād-/ , WS. **BS:** ‘original force, power’ > ‘father’ > with the semantic bias ‘lord’: **Amor.:** *ad*, ‘father’ (APNMT 156, but not in CAAA); **Ug.** *ʾad*, ‘father’; **NWS:** Phoen., Pun.: *ʾd*, ‘lord’ (The assimilation of /-n/, does not seem probable; cf. *infra* /ʾdn/). There is a curious semantic transformation in **Gur.:** *adi*, ‘mother!, mistress!, lady’, form of address to an elderly woman, and also *addoyye*, ‘form of address which older women of the same age use when speaking to one another’; < possibly determined by the semantic shift to female family relatives in AA (HSED 6).

The parallel *Addu/Baʿlu* is not valid (< /hdd/); and a Sem. \*ʾad-, ‘lady’, does not exist (HSED 8; cf. Diakonoff/Kogan 1996:27.- **SF:** ‘Society/family’ > hierarchy/power relationship).

## 1 - First level: b) intensified base

/ʾaD-/ Denom. deriv. by vowel intens. < /ʾad-/ > /ʾād-/ , WS. **BS:** **Heb.:** (*ʾal*) *ʾōdōt*, ‘for the account, reason of/that’ (cf. Eng./Sp. ‘by force/virtue of’); **Ar.:** *ʾāday*, ‘the most effectual thing’, by vowel intens. + suff. expan.

/ʾaD-/ Denom. predic./design. by conson. intens./gemin. < /ʾad-/ > /ʾadda/ , E/SS. **BS:** to ‘act with unconstrained force > to carry out’, with positive // negative (enant.<sup>?</sup>) nuance: **Ar.** *ʾadda*, ‘to oppress’ // > ‘to arrive’ (by semantic shift (?) ‘to show force’ > ‘to moo, low’), *taʾaddada*, ‘to act with forced harness’, *ʾa/id(d)u*, ‘strength, power, force’, ‘wonderful thing’/ʾabominable thing, calamity’; cf. **Akk.** *ū/ud(d)u*, ‘distress, affliction’; *addu* ‘throwstick’, possibly by semantic metaph. shift (or KW).

Cf. Zaborski 1971:54, who quotes both Ar. *ʾāda* and *ʾadda*, ‘to oppress’. Saf. *wdd*, ‘calamity’ (?), which seems to be an allophone of /ʾdd/ (cf. DRS 8), and *ʾad-* a contrastive one as well (cf. *infra*); also Murtonen 1989:89.

## 2 - Second level: expanded base

Prefix. expansions of this base are not certain, but the following can be considered:

/MaʾaD-/ Denom. predic./design. by prefix. /m-/ < /ʾad-/ > /ma+ʾad(a)/ , E/WS. **BS:** ‘(to be) abundant’: **Akk.** *maʾdu*, *mādu*, ‘to be(come) many’, *maʾdû*, ‘(large) quantity, abundance’; **Ug.** /mʾd/, *mu/a/id*, ‘to be immense’, ‘abundance’; **Heb.:** EpHeb. *mʾd*, ‘very, much’, Heb., MHeb. *mēʾōd*, ‘strength, power’, ‘very’ (Murtonen 1989:253), in parallel with **ESA** *nʾd*, ‘luxuriance’, ‘luxuriant crops’. And taking into account the quoted enant. value of Ar. *ʾa/id(d)u*, ‘strength, power, force’, ‘wonderful thing’/ʾabominable thing, calamity’; **Akk.** *ū/ud(d)u*, ‘eine Bedrängnis’, one could see another prefix. expan. in Ar. *naʾada*, ‘a calamity befell him’, *naʾdu*, ‘calamity’.

Cf. Hurvitz 1913:88, who suggests a deriv. < /md/. The alternation of morpheme prefix. favours a derivation from a common base /ʾad/.

As for infix. expansion, the following may be taken as an expan. glide (cf. *supra* /ʾad-/):

**/ʔaYaDa/** Denom. predic./design. by infix. expan. /-ya-/ < /ʔad-/ < /ʔa+y(a)+da/, WS/SS. **BS:** ‘to show force, power’: **Ar.:** *ʔayada*, ‘to be strong’, *ʔaydu*, ‘strong’, *ʔiyād*, ‘anything strengthening’ >? Amh.: *ʔyyādä*, ‘to determine, to define, delimit, to decide’; and possibly by enant. **Heb.:** *ʔē(y)d*, ‘final disaster’.

Finally, among the suffix. expan. the following are to be taken into account:

**/ʔaDaWa/** Denom. predic./design. by suff. expan. /-y:wa/ < /ʔad-/ > /ʔad(a)+wa/, E/SWS. **BS.:** ‘to show superior, dominant position or power’: **Ar.** *ʔadā(w)*, ‘to (be) equip(ped), provide(d) with the necessary ...’, *ʔadātu*, ‘instrument’, *ʔadiyyu*, ‘armour, device’ (DAF 20); cf. **Akk.** *udû*, ‘Utensilien’ (AHw 1401); also Ar. *ʔadā(y)*, ‘to cause, arrive’ (cf. *supra* *ʔadda*).

**/ʔaDaYa/** Denom. predic./design. by suff. expan. /-y:wa/ < /ʔad-/ > /ʔad(a)+ya/, E/WS. **BS.:** ‘to exert/suffer a superior/inferior dominant (economic) power’, by enant. [cf. Sp. ‘deudo’]; the economic semantic bias is clearly a derived one < as a power relationship (cf. Eng. ‘impost’ < Lat. ‘in-ponere’, for ‘tax’]: **Akk.** *idum*, ‘wage, rental’ (CDA 15 <? *idum*, ‘hand’); Ug. ud, ‘pay, payment’ (?); **Aram.:** Syr. *ʔadī*, ‘to provide’; **Ar.** *ʔadā(y)*, ‘to cause to reach’, *ʔadā*, ‘the act of causing to reach, performance’; **SS:** Amh. *ʔada*, ‘debt; tax, fiscal impost’, *ʔadäyyä*, ‘to return, pay back’; an allomorph alternation may be seen in Tig. *awädä*, ‘1. to cause to have’. 2. to owe’.

**/ʔaDān-/** Denom. deriv. by suff. expan. /-n/ < /ʔd-/ > /ʔad+ān-/ , NWS. **BS:** ‘owner of power’: Ug. *ʔadn*, ‘lord’, *ʔadt*, ‘lady’; **NWS:** Phoen., EpHeb., EpAram., Nab., Palm.: *ʔdn*, *ʔdt*, ‘lord, lady’; **Heb.** *ʔādôn*, ‘lord, master’ (but cf. DRS 8); **Aram.:** JAram. *ʔdwn*, ‘guardian of a woman’.

As for Heb. *ʔeden*, ‘pedestal, base’; JAram. *ʔudnā*, ‘footstool’ (DTT 22; Murtonen 1989:83, related to /hdm/, ‘footstool’?; cf. Watson 1996:19; Watson 1997:89-95), we are possibly dealing with a KW, as is also the case with Akk. *adattu*, ‘succulent part of reed’ (cf. AHw 12: ‘nest, camp’); the semantic shift that generated these semes is not clear, nor is the relationship between them to claim a deriv. < /ʔad-/. Note that Phoen. *ʔdn* is of uncertain reading and meaning (DNWSI 17).

Even more objectionable would be a derivation from /ʔad-/ of NWS /ʔd-m/: Amor. DN /ʔadmu/ (Buccellati 1966:130; CAAA 13, 46f.); Ebl.: *ad-mu*, ‘man’ (PET 75); Ug. *adm*, ‘man’, ‘mankind’; Phoen., Pun., EHeb: *ʔdm*, ‘man’; Heb. *ʔādām*, ‘mankind, man’; JAram. *ʔādām*, ‘Adam’ (TDD 17; cf. Ar.: *ʔadamu*, *ʔadamīyyu*, ‘Adam, human’, a Aram.-Heb. LW), as the most powerful being, the ‘lord’ *katʔexoché*, but contrast ESA *ʔdm*, ‘vassal’, *ʔdmʔ*, ‘to put up resistance’, *tʔdm*, ‘military mission’, where the seme ‘strength’ (suffered and exerted) is more apparent. In this case, it should be separated from the root /ʔdm/, ‘red’ > *ʔādāmā*, ‘earth’, *ʔadīmu*, ‘tanned skin’, from which is usually seman. derived through Heb. *ʔādām*. < *ʔadamu*, ‘mixed, brown colour’ (cf. HSED 5; Murtonen 1989:83; CEDHL 7).

The same can be said of the lexeme /ad-r/: Ug. *adr*, ‘wonderful, strong’; Phoen. *ʔdr*, ‘to be mighty’; Heb. *ʔaddīr*, ‘mighty, magnificent’; JPArAm. *ʔdyr*, ‘mighty’; JBArAm. *ʔādīrūtā*, ‘glory’ (cf. Murtonen 1989:83).

### 3 - Homographs/Loanwords

\* /ʔəd-/ LW < Sum. *a-dé-a*, ‘flood from the deep’ > Akk. *edūm*, ‘flood, wave’; Heb. *ʔēd*, ‘subterranean stream, groundwater’ (‘an apocopated form of *ʔdʔ*’[?]; cf. DTT 15); Gur. *ādīyā*, ‘river’ [intens.+ expans]. In connexion

with this base, the following may also be considered: Ar. *na'ada*, 'to make water spout to the surface', *na'du*, 'spouting water' (DAF 1176); Soq., *n'd*, 'to bring water' < Meh. *'ānāt*, *ḥe-nīd*, 'waterskin'; Šh. *'ānīt*, *nīd*, 'waterskin'; and Heb. *nō'd*, 'leather bottle'; JAram. *nōdā*, 'leather bottle' (DTT 884), better taken as a LW < Akk. *nādu*, '(water-)skin', than as a prefix. /n-/ expansion of an original Sem. base or of the adduced Sum. noun (LW). See also JAram. *'aša/ēd*, 'to pour out' (DTT 126). Its possible relationship to /'ad-/, as an expression of primary force (cf. *supra*), is uncertain. But cf. the isosemantic chain /'ab-/ > /'aḅ-/ *supra*. If correct, a possible Semitic apophonic primary base \*/'əd-/, from which all those phenotypes may derive, including the Sum. lexeme, should not be ruled out.

## /'aḏ-/

## 1a - First level: simple base

\*/'aḏ-/ (?) **PrimW**, WS. **BS**: 'a bad accident or damage in the general sense of disturbance of the usual state of affairs: disposition [order], colour, flow ...': **Ar.** *'adda*, 'to cut, split' (DAF 20: cf. DRS 10).

The simple base is only documented in its expanded form. Possibly /'ad-/ // /'aḏ-/ is in contrastive opposition, or due to contamination or allophony. - **SF**: General situation.

## 2a - Second level : expanded base

/'aḏaYa/ Denom. predic. by expan. suffix. /-ya/ < /'aḏ-/ , /'aḏ (a)+ya/, SW/SES. **BS**: 'to produce an \*/'aḏ-/ of any kind': **ENA**: Lih. *'dy*, 'to cause unrest' (DRS 10); **Ar.** *'adiya*, 'to annoy, harm, hurt', 'experience an evil' > *'ada(y)n*, 'annoyance, harm', *'adiyatu*, 'evil thing' (AEL 44). **Eth.**: Ge. *'ozā*, 'one who does an injustice'; Tgr. *'ada*, 'to do harm'; Amh. *əzəh*, 'exudate serum from a wound'; Gur. *ozā*, 'evil eye', 'a person who has the power of casting the evil eye'; Har. *azā*, 'gēner' (DRS 10).

There is a possible phonetic alternation (allophony) of dental phonemes: /'d(-y)/ // /'ḏ(-y)/. Ar. *'ādīyyu*, 'vehement waves', is possibly a metaph. shift (> 'that harms, destroys', cf. Sp. 'rompientes').

As a possible infix. expan. /-r-/, cf. Amh. *arrāzā*, 'to wear out, become threadbare (clothing); to be wanting, lacking, deficient', but the lack of parallels precludes certainty.

## 1b - First level: simple base

\*/'əḏ-/ **PrimW** SW/SES. **BS**: 'past time (?)'/'moment, point in time': **Ug.** *'id*, 'temporal adv. functor', 'postpositive temporal adv. morpheme', 'narrative adv. functor "then"' (with syntag. adv., expan. /-ka: *idk*); **Heb.** *'āz*, 'then' (with progr. vocal. assim. to laryng.); **NWS**: EpHeb., EpAram. *'z*, 'then'; **Aram.**: BAram. *'edayin*, 'then'; **ESA**: Sab. *'ad*, 'when?'; **Ar.** *'id*, 'a word denoting past time: "then"', *'idā*, 'denotes a thing happening suddenly: lo, behold!', *'id-ān*, 'then' (expan. /ān/), *'idda-ka*, *'idā-ma*; and possibly Gur. *azāz*, 'beginning of group mourning early in the day', by conson. intens. /gemin. and contamination<sup>7</sup> with /'aḏ-/.

Cf. *supra*. Ug. and Ar. syntag. functors of this base can be found in: **Aram.**: EpAram., JPAram., Syr. *hāidēn*, 'then'; **ETH.**: Ge. *yə'əze*, 'now', *mā'əze*, 'when?'; Tig. *'azē*, 'how'. A possible etymological relationship with the determinative functor /ḏ/ is not to be ruled out; cf. Monoconsonantal 52f.; DRS 10. - **SF**: 'Time', 'time precision'.

Among the possible expansions of this base to be taken into account, one could consider the suffix. Aram./Heb. /ʔzl/, ‘to go away’ (cf. Ar. *ʔazaliyyu*, ‘long since past, eternal’ [DAF 29], but this entails a somewhat irregular phonetic correspondence); more probably they are allophones. Also ESA *ʔdn*, ‘to dismiss, to allow s.o. to depart’ (SD 2), could also be taken into consideration.

/ʔaḌ -/

### 1 - First level: a) simple base

\*/ʔaḌ -/ Original, no attested simple base. **BS:** ‘penible sensation, oppressing’.

This base is to be distinguished semantically from /ʔəṣ-/ (cf. *infra*), although both are very close to each other and dialectal contamination cannot be excluded, as is possibly the case in Tig. and in Heb. Cf. also *supra* /ʔad/ (and even /ʔad-/) as a possible original resonance allophone. - **SF:** Basic sensation.

### b) intensified base

/ʔaḌa/ Denom. predic. By conson. intens. < /ʔa Ḍ- / > /ʔḌa/, SW/SS. **BS:** ‘to cause pain, <to oppress’; Ar. *ʔaḌa*, ‘to affect painfully, to torment s.o.’ (DFA 37) > Har. *ʔaḌ*, ‘pain, suffering’ (DRS 31); and with causative value > Tgr, *ʔadda*, ‘to yoke’ < ‘to cause oppression’.

/ʔaḌa/ Denom. predic. by vocal. intens. < /ʔaḌ- / > /ʔāḌa/, NWS. **BS:** ‘to exert pressure upon’; Heb. *ʔāṣ*, ‘to urge, be in haste’. In contrasting intens. distribution with the former: Ar. *ʔaḌa*.

No affix. expansion of this base can be identified with certainty. Possibly Ar. *ʔaḌima*, ‘to be angry against, to persecute s.o.’ (DAF 38) and, as privative/enant. derivation, Ar. *ʔamiḌa*, ‘to be indifferent to offences’ (DAF 55) could be considered expansions of it as psychological reactions.

The consonantal homograph *ʔaḌā*, ‘pond’ (DAF 38) apparently has nothing to do with the base in question, on the other hand, Sab. *ʔy*, ‘trouble, distress’ may represent an alternative allophone of this cluster (SD 11; cf. *supra* /ʔaḌaya/).

/ʔvG- /

### 1 - First level: a) simple base

\*/ʔa:əG- / **PrimW** < Universal semantic: ‘fire/burning’, not attested as simple base in Semitic.

Cf. **AA** \*ʔug-, ‘to burn’ (HSED 33; cf. also \*aḥ-, ‘fire’, HSED 7). Possible allophone of Nostr.: \*hag-/\*həg, ‘to burn, to be on fire’ (NMF 588f.), but cf. *infra* on /ʔaggān/ - **SF:** Natural Phenomena: fire.

### b) intensified base

/ʔaGa/ Denom. predic. by conson. intens. < \*/ʔəg- / > /ʔagga/, E/WSS. **BS.:** ‘to set fire’: by psychosomatic metaph. > **Akk.** *agāgu*, ‘to become furious’, *aggu*, *akku*, ‘furious’; **SWS:** Tham. *ʔg*, ‘burn!’ (DRS 10); **Ar.** *ʔagḡa*, ‘to burn, flame fiercely’; allomorph *haḡḡa*, ‘to burn fiercely (of fire)’ (cf. also AHw 14 < *hāgīg*, but cf. /hg/ *infra*) and derivatives; possibly **Eth.:** Har. *aḡḡu-(be)*, ‘soon’ (DRS 6).

## 2 - Second level: expanded base

In the same SF the expansions of this base are almost non-existent. Only two suffixed expansions may be related to it:

**/ʾaGaMa/** Denom. predic. by conson. expan. /-m/ <? \*ʾəG-/ > /ʾaga+ma/ E/WS. **BS:** ‘to burn hot, glow’, by metaph. shift: < **Akk.** *agāmu*, ‘to be furious’; **Heb.:** *ʾagām*, ‘to glow’; **Ar.:** *ʾağama*, ‘to loath so.’ < ‘to be angry against s.o.’, ‘to be glowing’, *ʾağmu*, ‘anger’ (DAF 14).

**/ʾaGGāN-/** Denom. deriv. (LW<sup>2</sup>) by intens. and suffix. expan. /-n/ < \*ʾəg- > /ʾaggān-/ E/NWS. **BS:** ‘container (to be put on fire)’: **Akk.** *agannu*, ‘bowl, cauldron’; Ug.: *agn*, ‘cauldron, earthenware bowl’; **NWS:** Phoen., EpHeb. EpAram., Nab. Palm. *ʾgn(ʾ)*, *ag-ga(n)-nu*, ‘crater, open bowl, basin’; **Heb.:** *ʾaggān*, ‘bowl’; **Aram.:** JAram. *ʾaggānā*, ‘basin, kettle, bowl’; Syr. *ʾaggānā*, ‘bowl’ > by semantic metaph. shift > ‘wheels and axes’, ‘capital (of a column)’, ‘disease of inverted eyelids’; Mand. pl. *aganīa*, ‘bowls, wine-pots, vessels’; **Ar.:** *ʾiğğanatu*, ‘a vessel in which clothes are washed’ > by metaph. shift *ʾuğnatu*, ‘the ball or elevated part of the cheek’; **Eth.:** Ge. *ʾaygan* (< *ʾaygan*), *gan<sup>c</sup>*, ‘basin, tub, pitcher’, ‘big jar, cauldron’; Tig.: *gānā*, ‘big vat’; Tigñ.: *gānʾi*, ‘tank, vat’; Amh. *gan*, ‘large earthenware container’ (by apheresis of /ʾ-/) ; Gur.: *gan*, ‘jar for water’.

This CS lexeme can be considered an expan. suffix. /-n/ of < \*ʾəg- > /ʾaggān-/, ‘container originally related to fire’. It is well attested in all the Semitic families and so must be very primitive. Cf. also **AA:** /ʾigan/, ‘vessel’ (HSED 25; *Essai* 78; De Calice 1936:123; Murtonen 1989:82; Rubiato 1986:411-420); Eg. *ikn*, ‘cup, jar’ (CDME 32, *jkn*, GHÄD 109) // Eg.: *ikn*, ‘to draw water’; Ber. *tikint*, ‘vessel’ (*Essai* 79); Chad.: EChad. *jùgùnég*, ‘calabash’<sup>2</sup> (ChLR I 25); Cush. *gān*, ‘jar’ (*Essai* 79). As for the morphol. deriv. cf. *ʾad/ʾadn* and other couples (DRS 7). - In this connexion we could consider the base as related to **IE:** *egnis/ognis*, ‘fire’ (IEW 293): Sansk. *ag-ni-*, ‘fire, sacrificial fire’, *agni-dhāna*, ‘receptacle for the sacred fire’ (SED 5); Hitt. *Agnis, ag-anni-*, ‘plate’ (HEG 10: ‘Wanderwort’); Lat. *ig-nis*, ‘fire’ (DELL 451). But the /-n/ seems to be ‘radical’ in IE and the lexeme means ‘fire’ not ‘container’ (but cf. Hitt.). Consequently an **AA** primary origin is more probable (but cf. supra AA \*ʾug-, to burn’, which will play for an expansive origin of the /-n/). – Note that Palm. *ʾagn* and *ʾagm* (DNWSI 9f.) are of unknown meaning.

On the other hand, a root /ʾg/, Ar. /ʾğ/ > *ʾağğa*, ‘to run’/‘courir’ (Hava 3; cf. Bohas-Chekayri 1993:11), seems instead to be a secondary semantic shift (poetic(?), said of that proverbially swift bird, the ostrich) of the well attested homograph already quoted; as for Ar. *ʾağgaʾa*, ‘fuir’ (DAF 13), a relationship to the root /gʾ/ is preferable. Both phenotypes are rare in Arabic (dialectal?).

## 3 - Homographs/Loanwords

Two of the various consonantic homographs of this cluster could have deriv. semantic relationship to \*ʾəg- > \*ʾəg-ay:’- / [expanded or originally triconson. /ʾ-g-ʾ/]: Heb. *ʾēgē*’ (recall the pun of the ‘burning bush’ of Ex. 4:), MHeb. *ʾēgeh* (DTT 11); EpAram. *ʾg*, Mand. *aga*, ‘thorn, thorn-bush’; Tig.: *age*, ‘kind of rush’ >? Amh. *agam*, ‘a thorny bush’ (*Carissa edulis*); Tig. *aməgge*, ‘a sort of maize’, *šəʾeg*, ‘a bush’; Gur. *agam*, *agām*, ‘kind of tree’; *agāl*, ‘kind of cereal’; *anigo*, ‘kind of tree’ (cf. Akk. *egū*, ‘a kind of camel-thorn’). The relationship is more difficult to define in the case of Akk. *egū*, *eqū*, ‘antimony’ (KW/LW<sup>3</sup>).

/ʔaH/

1 - First level: a) simple base

/ʔaH/ Exclamative primary functor N/SW/SS. **BS:** ‘exclamation, usually of pain’, ‘helas!’, ‘ah!’: **Aram.:** Syr. *ʔah*, *ʔahā*; Meh /ʔhy/, *ʔōhi*, ho! 4; **Ar.** *ʔah*, and by different expan. *ʔahi*, *hāh*, *ʔāha*; by positive semantic shift **MSA:** Meh. *ʔahā/ehē*, ‘yes’, ‘ah!’, ‘ja!’; **Eth.:** Ge. *ʔah*, (CDG 9); Tig. *ʔah*, *ʔeh*; *aho*, ‘okey!’, also used as a cry to camels (WTS 348); and by different conson. suff. Tig. *ahoye*, interj.; Amh. *əhew*, ‘(exclamation) here! look! so!’; Gur. *ohon*, ‘all right’.

Of onomatopoeic origin in most languages, Semitic and others: laryngeal symphoneme/resonance. Cf. Monoconsonantal 53f. Alloph. /ʔaħ/. - **SF:** Deixis, supraseg. expressionism.

1 – First level: b) intensified base

/ʔaH-/ Deriv. predic. by conson. intens./gemin. < /ʔah/ > /ʔahha/, SW/SS. **BS.:** ‘to bring out an /ʔah/ cry’: **Ar.** *ʔahha*, ‘to cry’, also the phenotypes *ʔahhi*, *ʔahah*, *ʔahhah*; by meton. deriv. > Ar. *ʔahhat*, ‘tristesse’, ‘affliction’; also as exclamation **Heb.** *ʔāhāh*, ‘alas!’ (HALOT 18); **Eth.:** Tig. *ʔaha belä*, ‘to call’ < ‘to utter a cry’ (cf. Cat. ‘cridar’); Amh. *ahah*, exclam. of surprise, *ahēhe*, ‘cry of mourning, pain or sorrow’ (AED 1091).

2 - Second level: expanded base

/ʔaW:YaH-/ Deriv. predic. by expan. glide /-w:y-/ < /ʔah/ > /ʔa+w:ya+ha/, SWS. **BS:** ‘to utter a cry of grief’: **Ar.** \**ʔāha*, *ʔawwaha*, *taʔawwaha*, *ʔayyaha* ‘to say *āhi*, from a motive of pain, ... affection, pity ..., to cry’, and the byforms *ʔāhi*, *ʔāwh*, *ʔāwhi*, *ʔāwi(n)*, *wāhan*, *hāh*, *hāhu* ...; > *ʔih*, *ʔiha(n)*, a command ‘be silent’.

This expansion can also be considered a vocalic intensification, as usual. There is no other expansion, in keeping with the onomatopoeic nature of the lexeme.

/ʔaḤ-/

1 - First level: simple base

/ʔaḤ-/ 1) PrimW, CS. **BS:** ‘near collateral relative’ > ‘brother’: **Akk.** *aḥum/aḥ(h)ātum*, ‘brother’/‘sister’; **Ug.** *ʔa/i/uḥ/ʔaḥt*, ‘brother’/‘sister’; **Heb.** *ʔaḥ(u)/ʔaḥôt*, ‘brother’/‘sister’; **NWS:** Phoen.-Pun., EpAram., Nab., Palm., Hatr. *ʔ(h(w))/ʔht*, ‘brother’/‘sister’; **Aram.:** JAram. *ʔahā/ʔā*, ‘brother’/‘sister’; Syr. *ʔahā/ʔā*, ‘brother’/‘sister’; Mand. *aha/ta*, ‘brother’/‘sister’; **Ar.:** Saf./Lih. *ʔh-t*, ‘sister’ (DRS 15); **Ar.** *ʔaḥū/ʔuḥtu*, ‘brother’/‘sister’; **MSA:** Meh. *ḡā/ḡayw*, ‘brother’, *ḡayt/ḡáwtan*, ‘sister’; Soq. *ʔḥat*, *ʔḥet* ‘brother’/‘sister’; Jibb. *ʔāḡal/ḡit*, ‘brother’/‘sister’; **Eth.:** Ge. *ʔḥəw*, *ʔḥʷ/ʔḥətt*, ‘brother’/‘sister’; Tig. *ḥu/et*, ‘brother’/‘sister’; Tigñ. *ḥawti*, ‘sister’; Amh. *et*, ‘brother’ > *əḥət*, ‘sister’; Gur. *ət*, ‘brother’/‘sister’; Har. *əḥit*, ‘younger sister’. By metaph. shift > ‘something at one’s side’, ‘side’ (‘affluent, riverside, shore’): **Akk.** *aḥum*, ‘arm’, ‘side’, ‘shore’, ‘bank of the river’, ‘field’, ‘part share’ > *aḥûm*, ‘outsider, strange’ (> ‘one from the border’); **Ug.** *ʔaḥ*, ‘shore’; **Heb.** *ʔāḥû*, ‘sedge’. It is not necessary, therefore, to postulate a new AA root \*ʔaq-, ‘field’ (HSED 14). The semant. shift is

ancient, as Eg. *3ḥt*, ‘field’, proves. In this case, Murtonen 1989:87 posits a second base as a LW from Eg.

Cf. Murtonen 1989:87. One of the ‘six nouns’; cf. /ʾab-/. The problem of case lengthening of the /-u/ or gemination, as in *ʾab-*, is involved here, because of the archaism and persistence of the case system in this field; cf. DRS 15. - **AA**: \*ʾaḥ (HSED 7). Given this AA ancestry, the seme ‘brother’ seems more original in relation to ‘side’, even if this seme is more generic. Phonologically, a {pharyngeal + labial} symphoneme seems to be operative in this field: /ʾ+ḥ/, /ʾ+b:m:/, /ʾ+m/, but /b+n/. Universal semantic. - **SF**: ‘Family relationship’. As a possible suffixed /-r/ expansion of /ʾaḥ-/, ‘Bruder’, Eilers 1987-1988:4 suggests *ʾaḥar*, ‘anderer’.

/ʾaḥ-/ **2)** Exclamative primary functor WS. **BS**: ‘exclamation, usually of disgust: **Ar.** *ʾaḥ*, ‘puaf!’; **Heb.** \*ʾōḥ, ‘howling desert animal’ (HALOT 29: ‘onomatopoeic word’).

Cf. Murtonen 1989:87. Of onomatopoeic origin, intensified *ʾah* (?) or an allophonic variant: laryngo-pharyngeal resonance: /ʾah, ʾaḥ, ʾaḥ/. The difference lies in the suprasegmental delivery (cf. /rûḥ:h/). - **SF**: Deixis, supraseg. expressionism.

While no prefix. and suff. expansions of this cluster can be identified, an apparent infix. expansion /ʾnḥ:h/ may be considered:

/ʾaNaḥa/ Denom. deriv. predic. by infix. /-n-/ expansion < ʾaḥ/ > /ʾa+n(a)-ḥa/, E/WS. **BS**: ‘to express bad mood’: **Akk.** *anāḥu*, ‘to be(come) tired’ >> ‘to sigh’; **Ug.** *ʾanḥ*, ‘complaining’; **Heb.** \*/ʾnḥ/, *ne ʾēnḥā*, ‘to groan’.

## 2 - Second level: expanded base

/ʾaḥaWa-/ Denom. nomin./predic. expan./-ya/ < /ʾaḥ-/ 1) > /ʾaḥ(a)+wa/, CS. **BS**: ‘to become a brother, tied to’: **Akk.** *aḥû(m)* GT, ‘to fraternise, conspire’; **Heb.** /ʾḥh/ N, ‘to fraternise’; **Aram.:** JAram. /ʾḥy/, ʾāḥāh, ‘to unite’ (DTT 40); **Syr.** /ʾḥ(w)/ Etpa., ‘to become brothers’; **ESA:** Sab. *ʾḥw*, ‘to be allied’; **Ar.** *ʾaḥā(w)*, to ‘become a brother’; **Eth.:** Ge. *taʾaḥawa*, to be a brother’.

Cf. Murtonen 1989:87.

## 3 - Homographs/Loanwords

Heb. *ʾāḥ*, ‘brazier’, < LW; cf. Eg. *ḥ*, ‘brazier’ (CDME 48); cf. Murtonen 1989: 87.

/ʾaḥ/

### 1 - First level: a) simple base

\*/ʾaḥ/ Exclamative primary functor NWS. **BS**: ‘expectoration’ / exclamation usually of constraint > ‘shortness of breath’, ‘cough’, not attested at the first simple level, but cf. **Ar.** *ʾaḥḥan*, ‘aha!’ (DAF 15).

Of onomatopoeic origin, possibly. - **AA**: Eg. *iḥ*, ‘ah!’, interj. expressing relief (CDME 28). - **SF**: Deixis, supraseg. expressionism.

/ʔə:**Ḥ**-/ Second level onomatopoeic nomin. deriv. with possible vocal. intensification < /ʔaḥ/ < /ʔāḥ/ < /ʔōḥ/: **Heb.** *ʔōḥ*, ‘howling desert animal’ < by onomatopoeic imitation of the animal cry.

But an **AA** origin is also possible; cf. Eg. *ḥ*, ‘bird’ (GHÄD 158).

### 1 - First level: b) intensified base

/ʔ**aḤa**/ Denom. predic. by conson. intens./gemin. < /ʔə:aḥ/ > /ʔaḥ(a)ḥa/, SW/SS. **BS:** ‘to bring out the /ʔaḥ/ sound’: **Ar.** *ʔaḥaḥa*, ‘faire ahha! aha!’ (‘comme fait celui qui tousse’; DAF 15); Tig. *ʔaḥu<sup>c</sup> belä*, ‘to cough’; Gur./Har. *uḥu* ‘barä’, ‘to cough’.

A suffix. /-l/ expansion of this exclamatory functor may be Ug. *ʔahl*, ‘if only!’; Heb. *ʔah<sup>a</sup>lê*, ‘oh!, if only!’. Also Ar. *ʔanaḥa*, ‘to breath hard, to made a reiterated hemming in one’s throat’, *ʔunūḥ*, ‘a sound accompanied by ...’. No other expansion can be ascertained for the whole group of the exclamatory functors /ʔaḥ/, /ʔaḥ /, /ʔaḥ/.

### 2 - Homographs/Loanwords

Heb. *ʔāḥū*, ‘sedge, marsh plant’, by meton. expansion > ‘reed-bed’, with regressive vocal. assimilation (cf. Eg.); EpAram. *ʔḥw(h)*, ‘grass, vegetation’; LW, cf. **AA:** Eg. *jḥw*, ‘leafy tree’ (GHÄD 96). It is necessary to distinguish this base/semi from /ʔaḥ-/, ‘brother/side’.

Tig. *ʔaḥā*, Tigñ. *ʔaḥḥā*, ‘cows’ < Eg. *iḥ(.t)*, ‘bull/cow’ (CDME 28; cf. Essai 78).

/ʔ**vK**-/

### 1 - First level: a) simple base

/ʔ**vK**-/ Interrog. functor WS. **BS:** ‘expression of a subjective state of ignorance, bewilderment’, syntagm related to exclam. deixis /ʔay>e+k+y:h/ (?): **Ug.** *ʔik*, ‘how?’, ‘why?’, *ʔiky*, ‘what about?, how?, why?’; **Heb.** *ʔék*, *ʔékā*, ‘how?’; **NWS:** EpAram. *ʔyk*, *ʔykh*, ‘how?’, by syntactical transformation > affirm. conj. ‘as ...’; cf. the allomorph or alternation [ʔ(y):h:w/] Heb. *hék*, ‘how?’; **Aram.:** EpAram. *hyk*, ‘according to’; JAram.: JBaram *hêkê*, ‘how?’; **Ar.** *wayk(a)* < *way*, ‘ah!’, interj. of admiration (DAF 1619), with allomorph. *wayb*, *wayl*, *ways*, *wayh*. Also **Heb.** *ʔak*, ‘yea, surely’; **Ug.** *uk* (?), ‘yes, certainly, for certain’ <? contrastive allomorph of *ʔik* or new syntag. formation /u+k/); more probably, allomorphs based on the emph.-affirm. functor (/k/); cf. also Tig. *ake*, ‘really’; Tigñ. *akka*, ‘certainly, indeed’.

Universal semantic; cf. Monoconsonantal, 50, 55f. [ʔ:h:k/]. The initial vowel results either from contraction or from prothesis. **SF:** Psychophysic expressionism.

### 1 - First level: b) intensified base

/ʔ**aK**-/ Deriv. nomin./predic. by conson. intens. <? /ʔak-/ > /ʔakka/, WS. **BS:** ‘(to show) bad mood’, by cause/effect meton.: **JAram.:** *ʔaktānā* (< /ʔkt/), ‘venomous, vindictive’ (DTT 66); Syr., *ʔakketā*, ‘anger’, *ʔakk<sup>o</sup>tānā*, ‘angry’; **Ar.** *ʔakkatu*, ‘bad temper’ > ‘anger’ > ‘heat’, by metaph. transformation: Ar. *ʔakka*, ‘to be hot and without wind’ (day). Allomorph. by deriv. vowel. intens./glide (?): Ar. *ʔawkatu*, ‘anger’ (DAF 69), but in this case a < /ʔ-w-k/ cannot be ruled out (DRS 13).

## 2 - Second level: expanded base

**/ʾaKaYa/** Denom. nom./predic. expan. /-ya/ <? /ʾak-/ > /ʾak(a)+ya/, SS. **BS:** ‘to feel a bad mood, to show it’: **Eth.:** Ge. *ʾākay*, ‘bad mood’, >? *ʾākuy* ‘mauvais’; Amh. *ākäy*, ‘bad’, and possibly *akati*, ‘worthless, ugly’; by objective and subjective consequence meton.: Tig. *ʾaka*, ‘to be bad’; Tigñ. *ʾakäyä*, ‘to be(come) bad’; Amh. *akkäya*, ‘to be evil’.

Akk. *i:ekû(m)*, ‘to starve, deprive (of food)’, ‘impoverished, bereaved’, could be related either to this binary base or to the triconson. one /ʾakaya/, from which the whole group would derive. But the allomorphy /ʾakka/ // /ʾakaya/, ‘bad mood’, in WS and SS, favours the common base /ʾak-/.

No other either prefix-, infix- or suffix- expan. of this cluster is certain. Even the derivation of the intens. and expan. bases < the CS functor /ʾak/, /ʾe(y)k/ is by no means clear (cf. DRS 18). In this regard it would be too risky to take Amh. *akš*, ‘s.th. disgusting, e.g. spittle, vomit, faeces’, as an expan. /-š(a)/ suffix. of /ʾak/.

### d) Homographs/Loanwords

Some conson. homographs show no relationship whatever to the proposed /ʾvK-/ and must be explained otherwise (cf. the related roots /kʾy/, /kwy/, kʾ:h/; DRS 18). Of these, the following may be quoted: Akk. *akkû*, ‘Eule’ (AHW 29), possibly of onomatop. origin; other Akk. lexemes such as *akayû*, ‘object of wood, (donkey) stick’, *ukû*, ‘a part of the loom’, *iēku*, ‘field (a measure)’, *akû*, ‘anchor’, may be LW; also *akîtu*, ‘New Year festival’, as its possible connexion with Akk. *i:ekû(m)*, as a feast of ‘degradation’, is not apparent; Ar. *ʾikâ*, *ʾakyu*, ‘caution, guarantee’, possibly also a LW; Tig. *ʾawwäkä*, ‘to feed’, and Amh. *ahun*, Har. *ahḥa*, ‘maintenance’, *ʾah aššänä*, apparently < Cush. *ak* (cf. DRS 18); Tig. *ʾuk belä*, ‘to drive animals’, may be of onomatopoeic origin.

### /ʾaL-/

#### 1 - First level : a) simple base

**/ʾaL/ PrimW** by conson. intens. < /ʾal/ > /ʾall/, CS. **BS:** ‘expression of impotence, moral pain’: **Akk.** *allu(m)*, ‘malheur!’; **Heb.** *ʾalelay*, ‘woe!’, with double expan.; cf. **NWS:** EpAram. *yllh*, ‘lamentation’, with ‘Anlaut’ alternation /ʾ:yl/; **Eth.:** Ge. *ʾallē la-*, ‘woe to!’; Tig. *ʾalla*, ‘ah!’.

Of onomatopoeic origin, related to /yll/ and /hll/ < {laryng./velar + later.} resonance (cf. DRS 20-21). Cf. /ʾalaw-/ b) *infra*. Cf. Zaborski 1971:54, who quotes two presumed Heb. allographs/expansions: /y-ʾ-l/ N, ‘to act foolishly’; *ewīl*, ‘fool’; both apparently alternative byforms of /ʾwl/ (cf. HALOT 21, 381), but I prefer to see them as semantically derived forms < /ʾal-/ (cf. *infra*), not from an original root /ʾwl/. Possible contamination of meaning. Amh. *älä*, Tigñ. *älä*, ‘to say’, could be related (?) to /ʾal/ c) as an exclamative deixis (cf. also. /ʾal-/ b)) - **SF:** Psychophysical expression.

**/ʾəL-/ PrimW**, CS (except SS). **BS:** ‘impersonal and personified cosmic, supreme power’ / ‘the powerful, the first’ > ‘god’: **Akk.** *ilum, elum*, ‘god, deity’; **Amor.** *ʾil(l)um*, ‘god’; **Ug.** *ʾil*, ‘god’; **NWS:** Phoen.-Pun., EpAram. *ʾl*, ‘god’; **Heb.** *ʾēl*, ‘god’, ‘power’; **Aram.:** JAram. *ʾēl*, ‘god’; **ENA:** Tham. *ʾl*, ‘god’ (DRS 19); with vocal. alternation: **Ug.** *ʾul*, ‘military force’; **NWS:** Palm. *ʾl*, ‘army corps’?; **Heb.** *ʾul*, ‘power’, *ʾûl*, ‘body, belly’. Cf. *infra* the expan. /ʾalah-/.

Cf. Murtonen 1989:90. A secondary deriv. allomorph noun by vocal. intens./epenth.-glide /-y-/ of this lexeme may be seen in Heb. <sup>ע</sup>*yāl*, ‘strength’, *ʾayl*, ‘mighty tree, pillar of an archway’; Syr. *ʾiyālā*, ‘help’; cf. *infra* for a possible relationship to /ʔal-/ < /ʔa-wa-l-/. On Heb. *ʾēl*, ‘power’ (cf. Bauer 1973:26, 29: ‘ma force, ma force, tu m’as abandonné’. But cf. Watson 1977:213-215, who reads the Hebrew expression *yš lʾ yd-* as *yš lʾ lyd-*; on /lʾ/, ‘power’, cf. DUL 486). In Aram. *ʾūlmā*, ‘strength, strong side’ (DTT 26) there is an affix. /m-/ expansion of /ʔəl-/. However, Palm. *ʾl*, ‘(army-)corps’, *ʾala*, seems to be a Gr.-Lat. LW (DNWSI 57). - **SF**: View of the cosmos > religion, society.

### 1 - First level: b) intensified base

/ʔaL-/ a) Nominal deriv. by conson. intens. < /ʔəl-/ > /ʔal(a)l-/, WS. **BS**: ‘instrument /manifestation of power’, with mythol. connotation (lightning): **Heb.** *ʾallāh*, ‘tree’ (cf. /ʔallān-/ *infra*); **Aram.:** JAram. *ʾallā*, ‘club, bat’ (DTT 66), *al(l)itā*, ‘fig-tree’, and as kindling wood (DTT 70; cf. Murtonen 1989:91); **ENA:** Lih. *ʾl*, ‘to drive in a lance’ (DRS 21); **Ar.** *ʾallatu*, ‘small lance, javelin’; allomorph. by vowel intens. Ar. *ʾālatu*, ‘instrument in general (to eat: small lance)’ (cf. DRS 12, 21). Also in the sense of something which makes strong, secures the house, door ...: **Ug.** *ʾalt*, ‘support, pillar’; **NWS:** Aram. *ʾallātā*, ‘post, pole, door-post’ (DTT 73).

Cf. **AA:** \*ʔalʔul, ‘stick’ (HSED 8). In DRS 12, 17, 21 there seems to be a confusion: the same base is listed under different ‘roots’ with no cross-references.

/ʔaL-/ b) Deriv. predic. by conson. intens. < /ʔəl-/ > /ʔall-/ > /ʔal(a)la/, SWS. **BS**: ‘manifest himself powerful’: MHeb./Aram.: *ʾālal*, ‘to be strong’ > ‘to circle’ > ‘to spy’ (DTT 71); **Ar.** *ʾalla*, ‘brillier, étinceler’ > ‘se hâter, s’agiter’ (‘like a thunderbolt’: light and power as primary cosmic forces) (?). By meton. enant. deverb. noun: Ar. *ʾill*, ‘enmity’ (?), better than < /ʔal(a)la/ a) (cf. DRS 21); >? Tigñ. *ʾalala*, ‘to roast’ (?) (Essai 82).

The seme ‘shine, flame’ has **AA** parallels (Essai 82).

/ʔaL-/ c) Deriv. predic. by conson. intens.-gemin. < /ʔal-/ > /ʔal(a)la/, W/SS. **BS**: ‘to manifest moral pain’ > ‘to cry, lament’: **Akk.** *allū*, *alla/i*, ‘woe’, also *alālu*, ‘work song’, by enant. Gt. ‘to sing a joyful song’; **Heb.** /ʔll/ > *ʾallay*, ‘woe’; **Aram.:** JAram. <sup>ע</sup>*lél*, ‘to lament’ (DTT 69: < *y<sup>ע</sup>lél*); **ESA:** Saf. *ʾll*, ‘to groan’ (DRS 20); **Ar.** *ʾalla*, ‘to cry’. By meton. subjective deriv.: a) predic. > ‘to feel oneself impotent’: **Ar.** *ʾalla*, ‘to abandon pursuit of the prey’, ‘to languish, become weak (the prey bird)’ (?), stative *ʾalila*, ‘to be stinking (tooth, milk)’ (DAF 44); b) noun. >: **Akk.** *ulālu(m)*, ‘weak’; **Heb.** <sup>ע</sup>*lil*, ‘insignificant, vain’ > ‘idol’; **Aram.:** Syr. *ʾālilā*, ‘weak, light, vain’ (LS 20); Mand. *alalta*, ‘feebleness’ (MD 19).

Cf. Murtonen 1989:90.

/ʔaL-/ a) Deriv. nomin. and denom. predic. by vocal. intens./epenth./glide /-w-/ < /ʔəl-/ > /ʔāl-/ > /ʔa+w(a)+la/, SW/SS. **BS**: ‘first moment of the day’: Ar. *ʾālu-*, ‘first part of the day’, ‘vapour that rises mornings and evenings’; >? **Ethp.:** Ge. *ʾawl*, ‘vapour, mist’; > Tgr. *ʾolā*, ‘to become moist’; Tigñ. *ʾawli*, ‘dew’; Amh., Tigñ. *awlo nāfas*, ‘storm’. Cf. /ʔawala/.

/ʾ**a**L-/ b) Deriv. predic. by vocal. intens./-glide /-w-/ < /ʾəl-/ > /ʾāla/, WS. **BS**: ‘to come back to the first’: **ESA**: *tʾwl*, ‘to return, bring back’, by seman. shift < ‘to begin anew’; **Ar.** *ʾāla*, ‘to return, to resort, to bear a relationship as a member to a head’. An allomorph. of this from could be seen in Heb. /wʾl/, hiph. *hōʾil*, ‘to make a beginning, to be keen on something, to decide ...’. Cf. /ʾawala/ *infra*.

A denom. deriv. from ʾal a) is not to be ruled out.

/ʾ**a**L-/ c) Deriv. nomin. by vocal. intens./epenth.-glide /-y-/ < /ʾəl-/ > /ʾē:āl-/ > /ʾa+y(a)+l-/, CS. **BS**: ‘male small cattle animal’: **Akk.** *ālu(m)*, ‘ram’, *īlu(m)*, *illu(m)* (‘leather bag’ could be a metonym deriv. by altern. intens.; but HSED 20 suggest an AA origin rather weak), *ayyalu(m)*, ‘stag, deer’ (cf. the secondary prefix. expan. *nayyalu(m)* > *nālu(m)*, ‘toe, deer’ (?)); **Ebl.** /a-a-lum/, /a-lu-um/, /ā-lum/, ‘stag’ (VE 293); **Ug.** *ʾil*, ‘ram’; **Heb.** *ʾayl*, ‘ram’; by epent.-glide and intens.: **Akk.** *ayyalu(m)*, ‘stag, deer’; **Ug.** *ʾyl(t)*, ‘deer’; **NWS**: Pun., EpHeb., EpAram. *ʾyl(ʾ)*, ‘ram, deer, stag’; **Heb.** *ʾayyāl*, ‘fallow deer’; **Aram.**: JPArAm. *ʾyylh*, ‘hind; first ray (of dawn)’; Syr. *ʾaylā*, ‘deer’; Mand. *aila*, ‘deer’; **ESA**: *ʾyl*, ‘mountain goat’; **Ar.**: *ʾa:i:uyyalu*, ‘mountain-goat’; **Eth.**: Ge. *hayal*, ‘ibex, mountain goat’; Tgrñ. *ḥayäl*, ‘deer’, ‘large antelope’; > Amh. *ḥayäl*, ‘large antelope’.

The deriv. must be pre-Semitic; cf. **AA** \*ʾayal-, ‘deer, ibex’ (HSED 19; Murtonen 1989:89); Eg. *ijr*, seems a LW < Semitic. Akk., Ug. and Heb. make its relationship to /ʾəl-/ almost certain (< ‘powerful, sexually potent’, ‘the first’ [?]). Possible primitive totemic connotations.

## 2 - Second level: expanded base

Among the expansions of this cluster the following can be suggested as very probable:

/ʾ**a**WaL-/ Nomin. deriv. by epenth. /-w-/ < /ʾəl-/ < /ʾa+wa+l-), E/WS. **BS**: ‘the most prominent in power’, ‘the first’: **Akk.** *awīlum*, ‘man’, and allophones *amī:ēlum*; **Ug.** *awl*, ‘priority, supremacy’(?) (DUL 131; cf. Dietrich/Loretz 2000:91f.); **Ar.** *ʾawwalu*, ‘first’ (AEL 3048 < /wʾl/ (?), but cf. DAF 69f.). Cf. *supra* /ʾal-/ a) and b).

Cf. Zaborski 1971:54, who quotes two presumed Heb. allographs/expansions: /y-ʾ-/ N, ‘to act foolishly’: *ʾewīl*, ‘fool’, both apparently alternative byforms of /ʾwl/ (cf. HALOT 21, 381). But I prefer to see them as semantically derived forms from < /ʾəl/, not from an original root /ʾwl/. In antiquity a ‘fool’ was considered a ‘divine’ and ‘powerful’ entity.

For Akk. this seems a better etymology than < /ʾnm/ (cf. DRS 12). This deriv. has to be considered a real epenthesis, not a simple vocal. intensification. Also Heb./JAram. *ʾēlām/ūlām(ʾ)*, ‘porch, entrance’, ‘in front of’ (DTT 26), possibly a secondary /-m/ expan. suffix. of this expanded base (Murtonen 1989:85).

/ʾ**a**Lān-/ Nominal deriv. by conson. intens. and suffix. extens /-an/ < /ʾəl-/ // /ʾal(a)l-/ > /ʾallānu/, E/WS. **BS**: ‘something strong of aspect’: **Akk.** *allānu*, ‘great, powerful tree: ‘oak’, *alianu(m)*, *alānu(m)*, *alilānu(m)*, a tree; **Eb.** *al<sub>6</sub>-la-na*, ‘oak’ (MEE 10:90); **Ug.** *ʾaln*, ‘oak grove’; **Heb.** *ʾallôn*, ‘any big tree’, with multiple allomorphs: *ʾayil*, *ʾēlāh*, *ʾellāh*, *ʾēllôn*, which certify the simple base; **Aram.**: JP/BAram., Syr. *ʾilān(āʾ)*, ‘tree’.

Cf. **AA**: \*ʔalan-, \*ʔalun-, ‘tree’ (HSED 9); Eg. *inrn* (*illn*) // ʔal-lú-na LW (WäS 1 98; Helck 1971:507). It may be a pre-proto-Semitic triconson. PrimW with possible totemic connotations. However, Heb. ʔalā, ‘stick’, does not exist (HSED 8; cf. Diakonoff/Kogan 1996:27).

/ʔaLaN-/ Nomin. deriv. by suff. expan. /-n/ < /ʔəl-/ > /ʔi:ul-/ > /ʔəlān-/, WS. **BS**: ‘supreme power, god’: **Ug**. *iln*, ‘deity, god’; **NWS**: Phoen.-Pun. ʔln, pl. ʔlnm, *alonim*, ‘god’.

/ʔaLaW:Y-/ a) Denom. predic. expan. /-w:y-/ < /ʔəl-/ > /ʔal(a)+w:ya/, W/SS. **BS**: ‘to show/exert power’: **Heb**. ʔālāh, ‘to put s.o. under an oath, curse’, ʔālāh, ‘curse’; (magic as the greatest divine power); **ESA**: Sab. ʔlh, ‘curse’; **Ar**. ʔalā, ‘to be able to’, ‘to give’ / IV ‘to swear’ (cf. Murtonen 1989:91). By enant. and in the ambivalent field of curse (< ‘to be under another’s power, cursed’): **Heb**. \*ʔālāh/ > *yōʔel*, ‘to fall short’; **Ar**. ʔalā, ‘to fall short of’ (it is not necessary then to postulate a specific AA etymon \*ʔVI-, ‘to be exhausted’: HSED 37). By metonym. concomitance: ‘consequence of a curse/oath’: **NWS**: Phoen. ʔlh/t, ‘covenant’ (expression of power as ‘present’ and ‘curse’); allomorph. with vocal. glide: Phoen. ʔylt, ‘covenant’; by enant. Tig. ʔala, ‘fault, weak point, danger spot’ (which manifests impotence).

The same enant. can be seen in /ʔʔ/, /ʔy/, with the same semantic value, possibly by metathesis/resonance. Or are we dealing here with an intrinsically ambiguous seme? Also Akk. *eʔēlu*, ‘to bind’, *iʔlu(m)*, ‘contract, bond’, should be taken into account in this connexion. But this is probably another (allophone?, /y-/ expan.?) base (/yʔ/) (cf. AHW 189). On the other hand, an **AA** etymon \*ʔil, ‘swear, oath’ (HSED 26), of Sem. /ʔly:h/ is very dubious.

/ʔaLaY-/ b) Denom. predic. expan. /-w:y-/ < /ʔal-/ > /ʔal(a)+ya/, WS. **BS**: ‘to utter an /ʔal/ cry’: **Heb**. ʔālāh, ‘to wail’: **Aram**: JAram. ʔly, ʔālā, ‘to lament, wail’ (DTT 68): Syr. ʔelā, ‘to cry, lament’ (cf. Mand *alia*, ‘whither to go!’); > ? Ar. *miʔlātu*, ‘piece of rag which a woman holds in wailing’.

Cf. the possible alternation/allomorph of /ʔll/ (< /ʔ(y)ll/), ‘to cry, lament’; cf. *supra*.

/ʔaLaH-/ Deriv. nomin. by expan. /-h/ < /ʔəl-/ > /ʔi:ul-/ > /ʔalah-/, W/SS. **BS**: ‘supreme power, god’: **Ug**. ʔlh(m), ‘the divine one’: **NWS**: ‘god’ = EpHeb., EpAram., Palm., Nab., Hatr. ʔlh; **Heb**. ʔlōʔh(ʔim); **Aram**: BAram. ʔlāh; JAram. ʔēlāh; JBaram. ʔālāhā; Syr. ʔalāhā; Mand. *alaha*; **ESA**: ʔlh; **Ar**. ʔilāhu, with allomorph by conson. intens. ʔallāhu, as DN; > **Eth**: Tig. *ilahi*, ‘Lord God’ (< Heb.); Gur. *allah*, *alla* (< Ar.), ‘God’.

Cf. Murtonen 1989:91. For an overall, up-to-date discussion of this expansion cf. Pardee 2000:35ff.

Other more uncertain expansions of the onomatop. binary cluster /ʔal/ could be: CS /ʕʔl/, BS: ‘to make one’s own cry heard’ > ‘to exclaim’ (Cat. *criidar*, ‘to call’), according to the causative force of the morpheme /ʕ-/: ‘to ask’ = Akk. *šālum*, *šaʔalum*; Ebl. /sa-il-tum/, /si-a-lu/; Ug. *šʔl*; **NWS**: Pun., EpHeb., EpAram., Nab. *šʔl*; Heb. *šāʔal*; **Aram**: JP/BAram. /ʕʔl/; Syr. *šēʔl*; **ESA**: Sab. *šʔl*; Ar. *saʔala*; **Eth**: Ge. *saʔala*; Tig. *tēsāʔala*; Gur. *tāsālā*; but Amh. *tāsālā*, ‘to make a vow’ < *sālāt*, ‘vow’ (Murtonen 1989:407); especially in the semantic field of invoking the dead and soothsaying, whence *šēʔol*, ‘wasteland’, ‘underworld’ (cf. HALOT 1368-1370; for this Heb. lexeme Murtonen 1989:407 suggests the root /ʕʔV/, which seems rather unlikely).

More uncertain is Heb. /ʔlm/, ‘dumb’, according to the enant. indicated above; also as an infix. expansion /ʔml/ > /ʔal/: Heb. *ʔumlal*, ‘to dry out, dwindle’, Phoen. ʔml, ‘wither’ (cf. Murtonen 1989:93) – It is also difficult to

determine the relationship of this cluster to Eth.: Ge. *hallawa*, ‘to be’, Tig. *halla*, Tigñ. ‘*allo*, Amh. *allä*, Gur. *alä* (cf. CDG 218; Diakonoff/Kogan 1996:27), according to its basic seme (‘first affirmation of power...’) recorded above; possibly an AA origin is to be presumed: Eg. *irí*, ‘to create’, Ber. *el, ili*, ‘to be’ (cf. Essai 80). This applies especially if one takes into account the absence in this area of the base /ʔəl-/ , ‘impersonal and personified cosmic, supreme power, the first’ / ‘the powerful, the first’ > ‘god’. This original perception of existence as an assessment of priority and power is possibly to be found in AA \*ʔal-/ʔil-, ‘to be’ (HSED 8).

### 3 - Homographs/Loanwords

The CS functorial values and their morphological expan. (pron., conj., adv.: negative, affirmative) are more the result of the prosthetic conj. < /ʔ+l/; also Heb. /ʔu-lay/, ‘possibly’, and Akk. *u-la-* (id.)), *ul*, ‘not’/or’ (Monoconsonantal:49ff.), than due to derivation from an original cluster < /ʔ-l/.

Among the many homographs the following may be quoted:

Akk., *ālu(m)*, ‘village, town, Ar., ‘*ālu-*, ‘family, relations’ > ‘*ahl*.

Akk. *elūnum, elūlu(m), ulūlu*, ‘month name’ > Heb., JAram. ‘*ēlūl*, Nab. ‘*hwl*, Ar. ‘*aylūl* (cf. Murtonen 1989:90; for a bibliography cf. DRS 21) < Sum. LW possibly, but a Sem. etymology is not to be ruled out.//

Akk. *alallum, elallum*, ‘a stone’ < LW?

Akk. *allallu*, ‘a kind of bird’ < LW?

Akk. *īlu, illu*, ‘reed bundle’ < LW?

Akk. *illatu(m), illitu(m), allatu(m)*, ‘band, group’ <? ‘flock <? by conson. intensification < /ʔəl-/ > /ʔē:āl-/ ‘male small cattle animal’.

Akk. *illātu(m)*, ‘saliva’ <? AA \*ʔilaw:y, ‘saliva’ (HSED 27); possibly related by metonymy to < /ʔal-/ > /ʔal(a)+w:ya/, ‘to utter an /ʔal/ cry’.

Ug. ‘*all*, ‘garment’ > Hurr. LW?, cf. Akk. *allānu*, ‘a garment’.

Heb. ‘*wīl*, ‘*wīlī*, ‘*iwwellet*, ‘fool’; Meh. *haywel*, ‘mad’; Soq. *halhal*, ‘idiot’; the semantic enant. deriv. or possibly the semantic shift > as a ‘divinely powerful person’ offer better deriv. pattern than the etymology < ‘strong, fat’ > ‘stupid’ usually suggested (cf. DRS 12; HALOT 21; Murtonen 1989:85) cf. *supra* /ʔawal-/.

Ar. ‘*uwālu*, ‘shark’ (cf. SDA 45: ‘indien’).

Ar. ‘*allatu*, ‘flock grazing in far away pastures’ (DAF 44) < in relation to /ʔayl/, ‘ram’, and its allophones, ‘powerful’ flock? On the other hand, the relationship of this cluster /ʔ-l/ to /ʔly-/ > ‘*alyatu*, ‘animal body part’, ‘buttock, fat tail, ...’ (Heb., Aram., Syr., Ar.; Akk. *ellu(m)*; cf. HSED 8) it is not clear: It may be either a PrimW or an original metaph. (fat > ‘the most succulent, best’) (cf. DRS 20; Murtonen 1989:91); but cf. also Heb. ‘*lāl*, ‘soft’ > ‘fatty substance’ (DTT 71), related to /ʔal-/ c) with the derived meaning ‘weak’.

#### /ʔəM-/

##### 1 - First level: a) simple base

/ʔəM-/ **PrimW** with spontaneous conson. intens./gemin. (cf. Heb. ‘*abbôt*), CS. **BS**: ‘first female procreative and social principle’: **Akk.** *ummum*, ‘mother’; **Ebl.** /ʔummu/, ‘mother’ (VE 1044); **Amor.** /ʔi:ummum/, ‘mother’; **Ug.** ‘*um*, pl. *umht* ‘mother’; **NWS**: Phoen.-Pun., EpHeb., EpAram., Palm., Hatr. ‘*m*, ‘mother’; **Heb.:** ‘*ēm*, ‘mother’; **Aram.:** JA ‘*m*, *hm*; JPArAm. ‘*m*, ‘*emmāh*, pl. ‘*mhn*; JP/BArAm. ‘*immā*, pl. ‘*immāhātā*; Syr. ‘*emā*, pl. ‘*emhē*, ‘mother’; NArAm. *yimā*, ‘mother’; **Ar.:** ‘*ummu*, ‘mother’; **ENA**: Saf. ‘*m* (DRS 22; Lih. ‘*umm*, ‘mother’ (DRS 22); **ESA**: Sab. ‘*m*, pl. ‘*mht*, ‘mother’; **MSA**: Mh. ‘*em*, *hāmē/hāmēt*, ‘mother’; Jibb. ‘*emel/emetā*, ‘mother’; **Eth.:** Ge. ‘*əmm*,

‘mother’; Tig. *ʔam*, ‘mother’; Tigñ. *ʔam(-bet)*, ‘mistress of the house’; Amh. *ʔam-*, in compounds, *ʔannat*, ‘mother’; Gur. *ʔamm*, ‘mother’).

Cf. Murtonen 1989:92. PrimW of onomatopoeic origin: [{‘attak’} + labial /m/] (cf. DRS 2) in many Semitic and other languages, like /ʔab(b)-/, ‘mother’, with many derivations from the basic meaning: ‘people, nation’ // ‘conduct, canon, nature’, ‘master, way’, ‘protoplasm’; and modern. (Ar.) ‘the mother of ... (e.g. of wine)’, cf. already Akk. *ummu tuppim*, ‘original document’<sup>2</sup>. - **AA**: the distribution *ʔam-/ʔum-*, ‘woman’/‘people’, suggested in HSED 10/34 seems inadequate. - **Nostratic**: *ʔam(m)/ʔem(m)* (NM 571f.). - **BS**: Family (biological and social order).

/ʔaM-/ 1) **PrimW** contrast. apophony + fem. marker of /ʔəm-/, CS. **BS**: ‘secondary /subordinate female family component in service and procreation’: **Akk.** *amtum*, ‘maid, female slave’; **Ug.** *ʔmt*, pl. *ʔmht* ‘(female-)slave, maidservant’; **NWS**: Phoen., EpHeb., EpAram. *ʔmt*, ‘slave-girl, servant’; **Heb.** *ʔāmāh*, pl. *ʔāmāhōt*, ‘slave’; **Aram**: JAram. *ʔamhā* ‘*amtā*’, pl. *ʔamh<sup>a</sup>tā*’, ‘hand-maid’ (DTT 75); JPArAm. *ʔamhāh*, ‘maidservant’; JBArAm., Syr. *ʔamtā*, pl. *ʔamhatā*’, ‘maidservant; Mand. *amta*, *amuta*, l. *amhata*, ‘maid-servant’; **ENA**: Tham. *ʔmt*, *ʔmwt* (pl.) (DRS 22); **Ar.** *ʔamatu*, pl. *ʔamawāt* and others, ‘a female slave’: **Eth.**: Ge. *ʔamat*, pl. *ʔaʔamāt*, ‘maid’; Tig. *ʔamät*, ‘handmaid’; Amh. *amät*, ‘female slave’.

Cf. Murtonen 1989:92. Possibly the base was originally expansive: /ʔəm-+h-/ [> /ʔamah-at-/ > /ʔamat-/, with ellipsis of intervocalic /-h-/ and vocalic assimilation, as can be ascertained from the pl. forms. In Ar. it is subsumed under /ʔmw/ (cf. AEL 103). - **AA**: \*ʔam-, ‘woman’, Eg. *mwt* (Essai 83; HSED 10), in her various functions, including that of ‘mother’ /ʔəm-/ (!); but cf. also Eg. (*hm*), *hmt*, ‘woman’ (Essai 84). - **BS**: Family (social order).

/ʔaM-/ 2) **PrimW**, contrast., independent from the former, by conson. intens.-gemin. + fem. marker, CS. **BS**: body part, ‘forearm, elbow’: Akk. *ammatu(m)*, ‘forearm, cubit’ > as linear measure; **Ug.** *ʔamt*, ‘elbow, ell’; **NWS**: EpHeb., EpAram., Palm., Nab. *ʔmh*, ‘cubit’; Heb. *ʔammāh*, ‘forearm’; **Aram.**: JA, JPArAm. *ʔmh*, *ʔmth*, ‘cubit’; JBArAm. *ʔamtāh*, ‘cubit’; Syr. *ʔamtā*, ‘cubit’; Mand. *ama*, ‘forearm’; **ESA**: Sab. *ʔmt*, ‘cubit’; cf. **Ar.** *ʔamtu*, ‘a measure’, with many semantic deriv.; **Eth.**: Ge. *ʔamat*, ‘cubit’; Tig. *ʔammät*, ‘fore-arm, cubit’; Tigñ. *ʔimmat*, ‘measure of an arm’s, cubit’; Amh. *ʔmät*, ‘cubit’ > by semantic shift: MHeb. *ʔammāh*, ‘river-arm’ > ‘canal’ (DTT 75); Syr. *ʔam(m)ā*, ‘canal, aqueduct’ (cf. Sp. ‘brazo (de un río)’).

Cf. Murtonen 1989:93. **AA**: \*ʔam-, ‘arm’ (Essai 78; HSED 9). The possible relationship to /ʔə:am-/ is semantically uncertain. - **SF**: Part of the body.

\*ʔaM-/ 3) Onomatopoeic expression of breathlessness in deriv. predic. form by vocal. intens. SS. **BS**: ‘to utter this sound: **Ar.** *ʔāma*, ‘to gasp for breath from thirst’ (DAF 71); ><sup>2</sup> Tig. *ʔam bälä*, ‘to moan, groan’.

### 1 - First level: b) intensified base

/ʔaM-/ Denom. predic. deriv. by intens.-gemin. < /ʔəm- / > /ʔam(a)ma/, W/SS. **BS**: ‘to be at the origin of ...’: **Ar.** *ʔamma*, ‘to tend, to aim at ...’, ‘to precede at the head’, ‘to become a mother’, VIII *taʔammama*, ‘to adopt as a mother’; **ENA**: Saf. *ʔm*, > ‘to move towards’ (DRS 23); **ESA**: \*ʔmm, ‘to

be at the head of' (DRS 23), refl. *'tmm*, 'to obey, to be led' (SD 6); **Eth.**: Tig. *'ammāmā*, 'to go in a direction, to resolve'; Tigñ. *ammāmā*, 'to plan', 'to propose' > deverb. noun **Ar.** *'amāmu*, 'the location that is before', *'amamu*, 'nearness', 'in front of', *'imāmu*, 'a person whose example is followed'; Syr. *'amawmā*, 'form, protoplasm'; Akk. *ummum*, 'maître, chef de travaux' (?). Cf. *'a'tamma /'a'tamā*, 'to follow the example of' (cf. *infra /'atamā*) (AEL 103).

**/ʾaM-**/ Denom. predic. deriv. by vocal. intens./epenth. /-w-/ < /ʾəm-/ > /ʾāma/ as a contrast. allomorph of the former: **Ar.** *'ā(w)ma*, 'to march at the head of, gouverner' (DAF 71); ><sup>2</sup> **Ar.** *'awwama*, 'to thicken' (DAF 71).

**/ʾaM-**/ Denom. predic. derive. by vocal. intens./epenth. /-y-/ < /ʾəm-/ > /ʾāma/ as a contrast alloph., **WS.** **BS:** by enant.: 'not to be a mother': **Ar.** *'āma*, 'not to have a husband' (AEL 137) << **Ar.** *'aymu*, 'unmarried' (DAF 75).

## 2 - Second level: expanded base

There are no clear expanded forms of these bases, except for some denominative phenotypes by a suff. /-wa/:

**/ʾaMaW-**/ 1) Denom. predic. deriv. by expan. (+wa) < \*/ʾam-/ 1) > /ʾam(a)+wa/, **WSS.** **BS:** 'to become a slave': **Ar.** *'amā(w)*, 'to become a slave (a woman)'.  
 /ʾaMaW-

2) Deriv. predic. deriv. by expan. (+wa) < \*/ʾam-/ 3) > /ʾamā(w)/, **NSS.** **BS:** 'to utter the sound /ʾam/': **Ar.** *'amā*, 'to mew (of a cat), 'to utter a cry'.

This derivation may come from another independent onomatopoeia. ( cf. Sp. 'miau').

The origin of /ləʾm-/ as a prefix. /l-/ of /ʾəm/ (> **Ar.** *'ummāh*) is uncertain: Akk. *li'mu*, 'family, tribe'; Ug. *lim*, 'eponym', 'people, clan'; **NWS:** EpAram. *l'm*, 'eponym-year'; Heb. *lē'ôm*, 'nation' (but cf. Murtonen 1989:242f.).

Following the reasoning of Murtonen 1989:269 ('reference apparently to the noises ...'), /n'm/ (Heb., Ar.) could be taken as a prefix. /n-/ expan. of \*/ʾam-/ 3), with /nhm/ as an allophone. From this same onomatop. base CS /r'm/, a wild animal, could also derive, connoting the snuffling of the animal (?) (cf. Murtonen 1989:391: 'a wandering word of unknown origin').

Also CS /t'm/, 'twin' (Akk., Heb., Aram., Syr., Ar.; cf. Murtonen 1989:440), may well be a prefix. /t-/ expansion of the base /ʾəm-/, 'mother', by a metonym. semantic shift (cf. Hurvitz 1913:102, who presupposes a verbal root /ʾam/, 'to agree').

## 3 - Homographs/Loanwords

There are many consonantal homographs which cannot be connected with this cluster, including: CS functor *'am*, *':him*, by prosthesis of /'+m/ (cf. Monoconsonantal 55, 59f.).

Akk. *amu(m)*, 'raft' < *hamu(m)*.

Akk. *amû*, a spiny plant < (?).

Akk. *amû*, 'palate' < Sum.

Akk. *amūtu(m)*, 'liver of a sacrificial sheep' < (?).

Akk. *amūtu(m)*, 'meteoric iron' < (?).

Akk. *ummu(m)*, ‘heat, fever’ < *emēmu* < /ħmm/.

Akk. *ummu*, a bird < (?)

Heb. *ʿemāh*, ‘fright’; JAram. *ʿemtā*, ‘fear’ (DTT 51) < /hnh/. (cf. Murtonen 1989:89).

Syr. *ʿamawtā*, ‘wall lizard’. (<?); cf. Ar. *ʿaymu*, ‘serpent’ (DAF 75).

Ar. *ʿāmmatu*, ‘a wound’ >> *ʿamma*, ‘to inflict such a wound’ (<? /am-/ 2), cf. Sp. ‘codazo’); >>? Ar. *ʿāmatu*, ‘vice, default’ (DAE 75).

Ar. *ʿiyām*, ‘smoke’ (DAF 75) (<?).

Ge. /ʔym/, *ʿema*, *ʿema*, ‘to make a hedge for a pen’ < (?)

Tig. *ʿaym*, ‘fallow ground’ < (?)

Tig., Tigñ. *ʿom*, ‘tree, fruit tree’ < LW<sup>2</sup>

\* /ʔaN- /

### 1 - First level: a) simple base / b) intensified base

\* /ʔa:əN- / 1) **PrimW** nom./predic. with various alternative intens./expan. [ /ʔanaya/, /ʔanna/, /ʔāna/ ], WS.

**BS:** ‘expression of physical pain’, ‘to groan’, of onomatopoeic origin: **Ug.** *un*, ‘grief, misfortune’ > *ʿany*, ‘to sigh, groan’ > *tʿa:unt*, ‘whispering, groaning’, and possibly *iy*n, ‘mourning sacrifice’<sup>2</sup>; **Heb.** *ʿawen/ʿôn*, ‘disaster’ > ‘sin’ > ‘nothingness’, by cause/effect meton., *ʿānā(ya)*, ‘to lament’, *hitʿônēn*, ‘to complain’, *ʿônī(m)*, ‘mourning’, *ta<sup>n</sup>niyyāh*, ‘sadness’, and possibly *teʿūnīm*, unless related to /ʔa:ən-/ 2); MHeb. *ny/h* II, ‘to press, oppress’ (DTT 84), with caus./effect. value; **Aram.:** JAram. *ʿnan*, ‘to mourn’ (DTT 86); Syr. *ʿwn* ‘o!’, interjection of chagrin, *ʿan*, ‘to cry’, *ʿawntā*, *ʿenantā*, ‘cry, shout’, by metonym. < ‘place of pain’; Nab. *ʿwn*, ‘sarcophagus/part of tomb’; **ESO:** Sab. *ny*, ‘to commit fault of omission’, by meton. cause/effect shift; Ar. *ʿanna*, ‘to moan’, *ʿannatu*, ‘moan, complaint’.

Cf. Zaborski 1971:54; Murtonen 1989:94. The onomatop. base is the utterance itself, later verbalised. The simplest original form is to be found in Ug. and Syr. HALOT 70 quotes the resonance: /ʔnh/, /ʔnn/, /ʔnq/. Cf. possibly also IE [{glottal + nasal/sonant}]; for a similar development cf. /ʔal/. - **AA:** \*ʔan, ‘to speak’ (HSED 12: ‘related to Sem. \*ʔn- ‘moan’; Arab *ʿnn* and the like), but probably to be distinguished from Heb. /ʔny/, *pace* Diakonoff/Kogan 1996:28 (cf. Orel/Stolbova 1997:213 and the response of Kogan 2002:184). - **SF:** Psycho-physic sensations / ‘primary [animal] reactions < ‘sort of cry’.

/ʔa:əN- / 2) **PrimW** with vocal. intens./epenth./glide/ /ʔan- / > /ʔô(w)n- /, W/SS. **BS:** ‘strength, power, wealth’: **Ug.** *ʿan*, ‘strength’; **Heb.** *ʿôn*, ‘generative /physical power’ (from which may be > *ʿānāh*, ‘cause to happen’; **NWS:** EpAram. *ʿwn*, ‘force’<sup>2</sup>; **ENA:** Tham. *ʿn-* ‘tranquilité’, by meton. (DRS 13); > Ar. *ʿāna*, ‘to be at ease’ (AEL 129) > **Eth.:** Ge. (*ta*) *ʿayyana*, ‘to live well and comfortably’ (CDG 50). By epenth./glide development /ʔaw:yn/ by meton. cause-effect or enant.: < ‘effect of effort’ > **Ar.** *ʿawnu*, *ʿaynu*, ‘fatigue’.

There is possibly contamination and allomorph. contrast between the two bases in as much as ‘effort’ includes ‘fatigue, pain’ and ‘strength’ at the same time. This is not merely a question of ‘pronunciations’, but of variant morphological vocalisations based on semantic shifts, a normal derivative device in any language (cf. Dulière 1970:24-25). On the other hand, the existence of an **AA** \*ʔin., ‘to flow, to be wet’ (HSED 28), as an etymon of the rather obscure Ar. /ʔnn/ is very debatable. - **SF:** Psycho-physical sensations, reactions.

## 2 – Second level: expanded base

Of the possible expansions of this cluster only the following can be singled out with a certain degree of probability:

/ʾaNaY-/ cf. supra /ʾa:ən-/ 1).

/ʾaNaŠ-/ 1) Denom. predicat. deriv. by caus. suffix. /-š/ < /ʾa:ən-/ 1) > /ʾana+ša/, WS. **BS:** ‘to manifest/produce physical pain’; **Akk.** *eněšu*, ‘to be(come) weak’; **Ug.** *anš*, ‘to languish, fall ill, to become livid’; **Heb.** /ʾnš /, ‘to be sickly’, ‘*ānūš*, ‘incurable’; **Aram.:** Syr. *naš(š)*, ‘weak’, by apheresis and compensatory gemin.; **Eth.:** Ge. *ne’sa*, ‘to be small ...’, by methat.; Tig. *nā’asā*, ‘to be small’; Tigñ. *nā’asā*, ‘to be small’; Gur. *anāsā*, ‘to be small’.

As for Ug. *anš*, ‘muscle, tendon’<sup>2</sup>, and CS /ʾnš/, ‘man’, cf. *infra* /ʾəš/ a). Ug. *lan*, ‘power’ is to be related to > /l-’-y/. Note that E/WS /š’n/, ‘shoe’, seems to be a Hurr. LW (cf. Murtonen 1989:295; DUL 796, Heb. /s’n/ (!)), although Is. 9:4 would support < /ʾa:ən-/ 2), as ‘manifestation of (military) power’. The same could be said of Heb./Syr. /š’n/, ‘be quiet, without anxiety’ < ‘that makes s.o. strong’ (?) (cf. HALOT 1279f.; Murtonen 1989:407); Hurvitz 1913:89 suggests the root /šn/.

Heb./Syr. /m’n/, ‘to refuse’/‘be disgusted’ (Murtonen 1989:253) could be related to /ʾa:ən-/ 1) as a prefix. /m-/ expan., but this is not certain.

However, CS /ʾmn/, ‘to be firm’ (HALOT 63) seems to < AA: Eg. *mn*, ‘to be firm’, and in any case is not related to /ʾ-n/.

## 3 - Homographs/Loanwords

There are many consonan. homographs of this cluster:

First of all, the deictic lexemes of the pronominal and functorial series: CS *ʾan(a)*, ‘I’ (cf. Pronouns, pp. 104ff.; DRS 25); ES/Akk. *ana*, ‘to, for’; Akk. *annûm*, ‘this’ and deriv.; Akk. *ina*, ‘in, on’; *annânum*, ‘here’; WS *ʾan*, ‘wherever/where?’; Ar. *ʾannā*, ‘whence?’; Aram., Syr., Ar. *ʾi:en(a)*, conditional functor; Akk. *anna*, ‘yes, certainly’, *annû*, ‘look!’; Heb., Aram. *ʾānnāh*, ‘please’; Ar., *ʾan*, *ʾanna*, *ʾinna*, subordinating functors, Ge. *ʾen(-ka)*, ‘so then’, etc., etc. These functorial /ʾ-n/ morphemes in the various languages (pron., adv., conj.) are to be considered of deictic origin, along the lines of the 1<sup>st</sup> person pron. /ʾa-na/ and according to various semantic shifts. The alternation /ʾ:hnʾ:hm/ proves the supposed deictic origin of the bases and of equivalent atomic constituents. In this case, the basic element is deictic /n/ + prosthetic /ʾ/ and also encl. /-a/ (cf. Barth 1967b:96ff.). Ar. *ʾanā(y)*, ‘to be present, near to’/‘to come to its time’ and deriv., may be related to some of these locative/temporal functors. Other phenotypes are related to the deictic base /ʾ-y/ + -n (cf. *infra*; DRS 24-25).

Consonantal homographs of /ʾ-n/ include the following:

Akk. *ana:untu(m)*, ‘battle, strife’ < (?).

Akk. *anatu*, a ring < (?).

Akk. *anu*, a sort of wood or tree < (?).

Akk. *anu(m)*, a metal < (?).

Akk. *anunūtu*, a plant < (?).

Akk. *inu(m)*, a musical instrument < (?).

Akk. *inû*, ‘job, craft’ < (?).

Akk. *unû*, ‘a kind of meat’ < (?): this lexical item only occurs in jB and scarcely justifies an AA etymon \*ʔunay-, meat’ (HSED 34).

Akk. *unūtu(m)*, ‘tools, utensils’ < (?).

Ar. *ʔawnu*, ‘knapsack’ (DRS 13).

Ar. *ʔawān*, ‘tortoises’ (DRS 13).

WS /ʔny/, ‘ship’, possibly an Eg. LW (cf. Eg. *inī*, ‘to bring, carry off’, *inyt*, ‘materials for handicrafts’ (CDME 22f.) and a supposed *i-na-ya* according to Albright; cf. HALOT 71), although a Sem. etymology is also proposed: /ʔny/ ‘to hold’ (cf. HALOT 70f., CDG 410) > EpAram. *mʔn*, ‘vessel, vase’, Syr. *mānā*, ‘vessel, ship’, in keeping with the isosemantic chain: ‘vessel, vase’ > ‘vessel, ship’; Ar. *ʔinā*, ‘vessel, receptacle’; Ge. *nəwāy*, ‘vessel, instrument’, ... wealth’; Akk. *unūtum*, ‘tools, equipment’. In any case it would be a very original derivation /expansion if < /ʔan-/ 2 > the ‘vessel/ship’ as a manifestation of power/wealth. A possible AA origin must be taken into account: Eg. *ḥnw*, ‘jar’ (Essai 80; Murtonen 1989:95).

## /ʔaP-/

### 1 - First level: a) simple base

\*ʔaP-/ **PrimW** with original conson. intens./gemin., CS. **BS.:** ‘that binds and retains’, ‘bind’, elementary instrument: as simple base only in Akk. *ipu(m)*, ‘membrane, afterbirth’, *appatu(m)* ‘bridle, rein’, *apāpu*, ‘infiltrate’ (?) (Murtonen 1989:98).

Cf. the expan. /-n/ *infra*; there is the possibility of an original triconson. /ʔpn/ with regressive assimilation in Akk. (?). - **SF:** Basic instrument /action.

/ʔəP:F-/ Onomatop. expression with conson. intens., SS. **BS:** ‘(sound of) blowing’: Ar. *ʔuffi*, ‘word expressive of vexation, ... or disgust’; *ʔaffa*, ‘to say *ʔuffi*, by reason of anxiety’; *ʔuff*, ‘used ... on the occasion of experiencing annoyance or disgust at anything’, > by metaph. deictic extension *ʔuffu*, *ʔuffatu*, ‘dirt, filth’ (Sp. ¡puah!); **Eth.:** Tig. *ʔəf belä*, ‘souffler’; Tigñ. *uf belä*, ‘to blow’; Amh. *ʔəff alä* ‘to blow, blow in the fire’. Also a meton. shift possibly seen in Ar. *ʔiffu*, *ʔiffafu* (*ʔiffānu*), ‘a time, moment, instant’, in idiomatic expression (*ʔalā ʔiffini, fi ʔiffāni*), ‘comme un soufflé!’, ‘sur le champ, tout de suite’, according to the well-known isosemantic chain in many languages.- As a parallel development of this onomatop. could be considered the concomitant effect of its emission by cause-effect metonym. shift and vocal. intens. and suff.: JAram. *ʔofyā*, ‘what is blown off, foam’ (DTT 31); Mand. *aupa*, ‘foam, froth’; and by further metonymy (?), Tgr. *ʔofā*, ‘fast, hunger’ (cf. DRS 13).

Of onomatop. origin. HSED 13f. (cf. also Rapallo 2000:2020) suggests an AA PrimW \*ap-, ‘mouth’, but ‘related to \*ap-/\*wap-, ‘to yawn, open one’s mouth’. - **SF:** Physiological (re)actions.

### 1 - First level: b) intensified base

/ʔaP-/ Denom. predic. deriv. by intens./gemin. conson. < /ʔap-/ > /ʔap(a)pa/, E/WS. **BS:** ‘to encircle’: Akk. *ʔapāpu(m)*, ‘to ring, encircle’ (AHw 57); **Heb.** *ʔāpap*, ‘to encompass’.

## 2 - Second level: expanded base

Some dubious infix. and suff. expansions of this cluster can be singled out. Some of them may go back to triconson. bases, of which the biconson. may be a reduction. However no prefix. expansion seems to be extant.

**/ʔP(v)R-/** Denom. predic. expan. by suff. /-r/ < /ʔap-/ , cf. > /ʔapa+ra/ ‘to cover’: **Akk.** *apāru(m)*, ‘to cover (the head)’, *aparu*, a loincloth > **Heb.** *ʔpēr*, ‘band’.

Cf. *supra*.

**/ʔvP(v)N-/** Nomin. deriv. by suff. expan. /-n/ < /ʔap-/ , > /ʔapan-/ , NWS. **BS:** ‘that binds, encircles’ > ‘round’: **Ug.** *ʔpn*, ‘wheel’; **Heb.** *ʔōpan*, ‘wheel’ > *ʔopen*, ‘(proper) time, way’ > said of time (cf. ‘the wheel of time’ in many languages; DRS 29); **NWS:** EpAram. *ʔpn*, ‘fixed time’; **Aram.:** JAram. *ʔōpnā*, ‘turn’ (DTT 31); Syr. \**ʔupnā*, pl. *ʔūpenē*, ‘wheels’; said also of the (repeated, circular) way of behaviour; cf. *supra* Ar. *ʔiffū*, *ʔiffān*. (> Ar. *fannu*, ‘manner?’).

The ‘wheel’ is not a primary instrument, so this would be a secondary deriv. KW (cf. Murtonen 1989:98f., but his division into two bases seems unnecessary). – For Cohen < ‘sans doute /p-p/, with /ʔ/ prosthetic’ (DRS 29, cf. other expan.: /ḥ-p-p/, /l-p-p/); but the expan. /ʔpn/ does not support this deriv.

**/ʔaPaY-/** Denom. predic. expan. /-ya/ < /ʔap-/ > /ʔapa+ya/ , NE/NWS. **BS:** ‘to encircle’ > ‘to cover’: **Akk.** *apû*, ‘to become veiled’ > *upû*, ‘cloud’; **Aram.:** Syr. *ʔap(p)ayē*, ‘veil, curtain, binding’.

Nevertheless, the relationship to /ʔap-/ is not clear (DRS 28). For JAram. *ʔofyā*, Mand. *aupa*, cf. /ʔəp:f-/ *supra*.

**/ʔaPaY-/** Denom. predic. expan. /-ya/ < /ʔəp:f-/ > /ʔapa+ya/ , CS. **BS:** ‘to blow the fire’ (?) > ‘to cook, boil’ [better than < ‘to encircle, cover (with ashes)’]: **Akk.** *epû*, ‘to bake’; **Ug.** *ʔap(y)*, ‘to bake’; **NWS:** Phoen., EpAram.: *ʔpy*, ‘to cook, bake’; **Heb.** *ʔāpāh*, ‘to bake’; **Aram.:** JPArAm. *ʔpy*, ‘to bake’; Syr. *ʔepā*, ‘to cook’; Mand. *apa*, ‘to bake’; cf. > Ar. *mawfā*, *mīfā*, ‘oven’ (DAF 1579); > **MSA:** Soq. *moʔfe*, ‘oven’ (DRS 29); **Eth.:** Ge. *ʔepuy*, ‘baked’; cf. Amh. *ʔəff alä*, ‘to blow on the fire’.

Cf. Murtonen 1989:98. Common, primary and original conson. harmony in relation to ‘fire’ (‘blowing’). Its possible relationship to /ʔap-/ , ‘to encircle’, is not clear; but in any case ‘chasing/encircling’ (< /ʔap-/ ) preceded ‘cooking’ (/ʔəp:f-/ ), a secondary ‘modern’ activity, and ‘oven, kiln’ is instead a secondary cultural implement. Akk. and Ar. indicate different allomorphic ‘roots’: /ʔp(y) // /wp(y) / (?).

**/ʔaNP-/ PrimW**, deriv. by infix. /-n-/ or nasalisation/dissimilation of the intens. base < /ʔəp:f-/ > /ʔa+n+p-/ > /ʔa-pp-/ , CS. **BS:** ‘nose’: **Akk.** *appum*, ‘nose’; Ebl. /ʔappum/ (VE 212); **Ug.** *ʔap*, ‘nose’; **NWS:** EpAram., Palm. *ʔ(n)p(y)*, ‘front side, face, nostrils’; Heb. *ʔap(p)*, ‘nose’, *ʔānap*, ‘to be angry’ (cf. Sp. ‘hincharse las narices’); **Aram.:** BAram. *ʔanp*, ‘face’; JPArAm. *ʔp*, ‘nose’; JBArAm. *ʔappā*, *ʔanpā*, ‘face, front side’; Syr. *ʔappayā*, ‘face, surface’; *ʔanf(ā)*, ‘nose, face’ (TLS 278); Mand. *anpia*, ‘face, presence’; NAram *pātā*, ‘face, front, surface’, by apheresis; **ESA:** Sab. *ʔnf*, ‘fronts, near sides’ (DOSA 23); Ar. *ʔanfu*, ‘nose’ > *ʔanafā*, ‘to strike, to reach the nose’, *ʔanifa*, ‘to suffer pain in the nose’, etc.; **Eth.:** Ge. *ʔanf*, ‘nose’; Tig., *ʔan(e)f*, ‘nose’; Tigñ., *ʔanfi*, ‘to pinpoint’, ‘nose’; Amh. *ənnəf alä*, ‘to blow one’s nose’; Gur. *əf(f)/uf balä*, ‘to blow’.

The relationship to onomatop. /ʔəp-/ and to the seme ‘to blow’ supposes a certain semantic shift that is not self-evident and in any case is very primitive. In this connexion, see Amh. *afenṭa*, ‘nose’ (< /nft/, ‘to blow the nose’, with metath.; cf. CDG 28; cf. Eg. *fnḏ*, ‘nose’), that suggests a resonance [{attack glottal/nasal} + {labial}] as original, secondarily developed into an allothetic base in Amh., or simply a mix of bases. Instead, Cohen (Essai 83; cf. also Rapallo 2000:2020) suggests the AA root /fn/ which I find less suitable, given the dissimilatory character of /n/ and the persistence of the pharyngeal/velar attack in the AA languages.

Heb./Aram. /šʔp/, ‘to gasp for air, to pant, to strive’, may be considered a prefix. /š-/ expan. of /ʔəp:f-/ , rather than related to the root /šwp/ (Murtonen 1989:407).

### 3 - Homographs/Loanwords

Among the conson. homographs of this cluster, the functors /ʔp/, /ʔpw/, /ʔpnk/, etc. (< /p/) must be left out of consideration (cf. Monoconsonantal, pp. 62; ChCohen 2004:\*15-\*16, \*18-\*20; but the proposed distinction of two /ʔap/ is apparently more a question of function than of etymology). Here are some others which cannot be easily derived from the present bases:

Heb. *ʔé(y)pāh* ‘corn-measure’ is a KW < Eg. *ʔipt*, ‘grain measure’ (CDME 16; Murtonen 1989:89).

Ar. *ʔafatu*, ‘blight, blast, disease’; the relationship either to /ʔap-, ‘bind’ or to /ʔəp-, ‘blow’ (cf. Ar. *ʔuffi*, ‘word expressive of vexation, ... or disgust’) through a metaph./meton. shift. remains unclear.

On the other hand the relationship of the root /ʔpl/ > /ʔapay-, ‘to cover’ (cf. Heb. *ʔopel*, *ʔpēlāh*, ‘darkness’, *ʔāpēl*, ‘dark’ > JAram. *ʔpal*, *ʔappīl*, ‘to make dark’ (DTT 105)) to /ʔap-, through a form such as Akk. *upūm*, ‘cloud’, cannot be substantiated.

## /ʔaQ-/

### 1 - First level: simple base

#### \*ʔaQ-/

A sterile cluster with no clear expansions; /nʔq/, ‘to groan’, in Akk., Heb., JAram. and Tham., could be related to < /ʔnq/, /nhq/ (cf. HALOT 658; Murtonen 1989:269) as two alternative allothetic realisations (\*ʔ-q // \*/n-q/) of a resonance [{glottal attack glottal/nasal} + {velar}]. Ar. *ʔaqā*, ‘to displease (of food)’ could provide a hint of an original biconson. base of onomatop. origin expressing disgust (?). From it, through a descriptive / denominative shift, Ar. *ʔanāqu*, ‘small goat’(?), Heb. *ʔaqqô*, ‘wild goat’ (Akk. *inqu* does not seem to exist; Murtonen 1989:99) could be derived (because of their bleating sound). But neither the original base nor the deriv. shift can be determined.

### 2 - Homographs/Loanwords

There are numerous conson. homographs of this cluster, but no common or a clear-cut biconsonantal root can be identified:

Akk. *eqû*, ‘to anoint’ < (?)

Akk. *ēqu*, a cult object < (?)

Akk. *uqu*, ‘people’ < (?)

Aram. *ʔy*, ‘to understand’(?), cf. Eth. /ʔwq/, ‘to know, understand’.

Syr. *ʔiqîṭā*, ‘woman’s hair band’ (TLS 90); cf. < Ar. *wiqāyatu* < /waqā/, ‘to guard, protect’.

Ar. *ʔuqiyyatu*, *ʔawqiyatu*, ‘a weight’ < Greek/Lat. ‘ougkia !!Greek script!! /uncia’.

Ar. *'awqu*, 'burden, misfortune' < /'āqa/, 'to hang, to draw a disgrace', possibly a denom. deriv. loan from the former.

Ar. *'uqatu*, 'narrow well for rainwater' (LAL 70);

Ar. *'awqatu*, 'group, crowd (of men)' (LAL 70).

Ar. *'ayqu*, 'lower joint of a horse's leg' (< ?).

## /ʾvR-/

### 1 - First level: a) simple base

/ʾa:ēR-/ **PrimW** with vocal. intens. and contrast. apoph. 'fire'/'light', CS. **BS**: 'light/to shine'/'fire'/'to burn': 1) **Akk.** *urum*, 'daytime', 'day' (# 'night'); **Ug.** *'ar*, 'to shine'/'light'; **Heb.** *'ôr*, *'ôrāh*, 'to become light'/'daylight, light'; **Aram.:** JAram. /ʾwr/, p.p. *nā'ôr*, 'clear' (DTT 32); **MSA**: possibly Meh. *ḥa-rit*, 'moon'; cf. /ʾər-/ *infra*. Cf. also **Eth.:** Ge. *'e:ir*, 'sun, light' >? 'time'; Gur. *ayr*, 'sun, disc of sun' (EDG 118: < Cush. or Eth. /ʾmr/, 'day'). 2) **Ug.** *'ur*, 'warmth, heath'; **Heb.** *'ûr*, 'firelight, fire'; **Ar.** *'iratu*, 'fire, hearth, chimney' (DAF 27), by glide: *'awāru*, 'fire glow, flame, smoke' (DAF 68), *uwār*, 'heat, blaze' (DMWA 34) > denom. (II) *'awwara*, 'to set fire (to)'; **MSA**: Jibb. *'erāt*, 'moon', Soq. *'éreh*, 'moon', cf. *'érir*, 'to light' (SL 72f. for the other possible etymons).

Cf. Zaborski 1971:54.; Murtonen 1989:85. AA \*ʾur-, 'to burn, be hot'/'day' (HSED 35). **SF**: Natural phenom./climate: 'fire' and (><) 'light', simultaneous, meton. relationship. The relationship of Heb. *'ûrîm*, 'instrument for casting lots', to this base is very dubious (cf. HALOT 25); it is a KW (// *tummîm*) from the semantic field of magic. DRS 13 quotes the following 'resonances' /WRḤ, SHR, NWR, ḤRR/.

### 1 - First level: b) intensified base

/ʾaRa/ 1) Denom. predic. deriv. by conson. intens. < /ʾa:ər-/ > /ʾar(a)ra/, CS. **BS**: 'to set on fire': **Akk.** *arru*, 'tattooed, marked' (AHw 71; = 'branded' (?)), *arrātu*, pl., 'brand mark on the hand of the temple slaves' (CDA 24, but NB); said first of the fire and by metaph. shift also of the psychological state < Akk. *arāru(m)*, 'to be convulse' (cf. *infra* Ar. *'arā(y)*, 'to inflame with anger', DAF 27; while an AA \*ʾer-, 'tremble', supposed by HSED 21, is rather weak). As meton. effect of rage or fury (cf. Sp. 'ardor'), a very common meton. in many languages > 'curse': **Akk.** *arāru(m)*, 'to curse', *arratu(m)*, 'curse'; **NWS**: EpHeb. *'rr*, 'to curse'; **Heb.** *'ārar*, 'bind with a curse', *m<sup>e</sup>'ērāh*, 'curse', *'rrh*, 'curse' (Qumranic Hebrew); **Aram.:** JAram. *'ārar*, 'to curse' (DTT 126); **MSA**: Soq. *'rr*, 'to get angry', 'to curse' (cf. SL 76); > meton. effect: Tig. *'arar*, 'presumption', cf. the synon. equivalence in various languages between 'curse' and 'disgrace'. A sexual metaph. deriv. can be seen in: **Ar.** *'arra*, *'inivî* (*eam*), 'to compress', *mi'arru*, 'much addicted to venery', *'āra*, 'to force a woman' (DAF 68; cf. Sp. 'caliente', 'el ardor de la pasión', said of the sexual *æstrum*). But a denom. deriv. from PrimW. Ar. *'ayru*, 'penis' cannot be ruled out.

Cf. Zaborski 1971:54; Murtonen 1989:1000; of AA origin according to HSED 31, but if the semantic break attested in the phylum (/ʾto curse/'to insult/'to be angry/) is taken into account, the assumed derivation is valid for the whole. Instead, Syr. *'arā*, 'imprecation', Ge. *'ar*, 'oath', seem to be related to Gr. *arā*, 'vow' (cf. CDG 36).

\***/ʔaR-** 2) An onomatop. alluring sound to call animals. NW/SS: **Ar.** *'ar 'ar, 'irra 'irra*, 'a cry to call sheep and goats'; >? JArām. *'r*, 'fowler' (DTT 113, originating from *'ādā* < Heb. *šōdeh*, comp. Heb. *'ēd, 'ēd* (?), is implausible); **Aram.:** Syr. *'arrā*, 'bird lure' (?) (DRS 34]; **Eth.:** Tig. Tigñ *'arara* 'scaffolding in the cornfields to drive off birds'.

## 2 - Second level: expanded base

**/ʔaRaY-** Denom. predic. deriv. by expan. /-y:wa/ < /ʔa:ər-/ > /ʔar(a)+y:wa/, SS. **BS:** 'to burn': **Ar.** *'arā(y)*, 'to be burned', II 'to set fire (to)' (DAF 27); **Eth.:** Tig. *'arwä*, 'to flame up, blaze'.

On the other hand, a second /ʔar(a)+y:wa/ denom. predic. deriv. by expan. /-y:wa/ < \***/ʔa:#r-** > /ʔar(a)+y:wa/, CS with BS, 'to keep, collect', in the SF of harvest and husbandry, is apparently a byform or allophone of /<sup>c</sup>:gr/, 'to keep, protect' or else an AA deriv. is to be presumed (Eg. *iry*, 'corn'; cf. Essai 60; Murtonen 1989:100): Akk. *arū*, 'granary, storehouse'; *urū(m)/urrū*, 'stable, stall' and the animals kept there; NWS: Phoen. *'ry*, 'to amass'; Heb. *'ārāh*, 'to pluck', *'urwāh*, 'stable'; Arām: JArām. *'ūry:wā*, 'pile of plucked plants, stable'; Syr. *'wr*, 'coup, soufflet' [*colaphus*]; Ar. *'iryu*, *'ārīyu*, 'stable'; Eth.: Ge. *'araya*, 'to gather, glean'; Tig. *'arā*, 'to collect, heap up'; Tigñ. *'aräyā*, 'to gather'; cf. the allomorph Ge. *'arara*, 'reap, gather, harvest'; Amh. *arrärä*, 'to reap'. Possibly, the lexeme /ʔrn/, 'chest, ark, sarcophagus' can be derived from this root as a /-n/ expan. (?) (cf. Murtonen 1989:101: 'Kulturwort of unknown origin'). Cf. Zaborski 1971:54. For JArām. *'ō:ūryā* DTT 34 suggests 'storehouse' < Lat. *horreum*, pl. *horrea*, Gr. ὄρειον, ὄριον. Is this a nostratic lexeme? In this connexion, /ʔar(a)+y:wa/, 'to keep', could be a denom. predic. deriv. from this LW.

Other expansions are rather difficult to substantiate. Hypothetically, the following could be singled out from prefixed expansions:

NWS /t'r/: Ug. *tar*, 'glory' (?); Heb. *to'ar*, 'appearance, form'; Phoen.-Pun. *t'r*, 'presence, significance' (?), *bt'rm*, 'according to' (cf. Sp. 'a la luz de'), *t'rh* (Murtonen 1989:441).

Heb. /n'r/, 'to repudiate', could be considered a dialectal expanded by-form of /r'r/, 'to curse' (cf. HALOT 658; Murtonen 1989:269). In this connexion cf. also /m'r/ (Ar. *ma'ara*, 'semer des inimitiés', *ma'ira*, 'concevoir une haine contre', 'se rouvrir une plaie' [DFA 1052f., not extant in modern Ar.]; Heb. /m'r/ hif. 'painful, malignant') (Murtonen 1989:253), possibly as an /m-/ expan. < /ʔa:ər-/ , taking into account the semantic shifts which occur in /ʔar(a)ra/.

It would be more hazardous to assume the cluster /ʔmr/ as an infix expansion of /r'r/, although the BS 'light' > 'to manifest', 'put into light', 'to make visible', 'to make known' (HALOT 65) could easily explain the various 'dialectal' shifts: Akk. 'to see', NWS 'to say', Ar./MSA 'to order', Eth. 'to show', MSA 'matter; huge; prince' (ML 6); ESA 'sign, omen, oracle' (SD 6). In this regard Jibb. *'ōr*, 'to order', (>?) *'emer*, 'matter, order' (JL 3, 5), could represent the missing link, unless this is a syncope/assimilation of 'sonants'/nasals (cf. Sanmartín 1973:263-270; Murtonen 1989:94).

Another infix expansion of /r'r/ could be Phoen. *'šr*, 'joy', possibly through a metaph. shift (cf. Sp. 'se le iluminó el rostro'); Meh. *'šr*, 'to point out, beckon' (ML 8), a parallel allomorph to the possible expansion /ʔmr/ already mentioned.

ESA *'hr*, 'to be inflamed, infected (tooth)' (SL 39) could also be considered as an infix expansion of /r'r/, while CS. /r's/, 'to desire' (Akk., Ug., Heb., Arām.) is more difficult to establish as a suffixed form (cf. Murtonen 1989:102).

On the other hand, E/WS /nr/: Akk. *nūru(m)*, 'light', Heb. *nēr, nîr*, 'lamp, light', Ar. *nūru*, 'light', JArām. *nūrā*, 'fire', Syr. *nūrā*, 'fire', Mand. *nura*, 'fire' and also ESA *hnr*, 'offer burnt offering', may be considered an /nr/ (?) allomorph of /r'r/ (cf. the Heb. derivatives *mā'ōr/m'nōrāh*, 'lamp').

### 3 - Homographs/Loanwords

There are several homographs of this consonantal cluster; some are LWs and others belong to different first laryngeal/pharyngeal roots or to full trilateral roots. They include:

CS: Akk. *iria*, *aria*, *e/ira*, ‘side by side’; Ug. *ary*, ‘fellow, friend, kin’; Ar. *'ariyyu*, ‘place of confinement of an animal’, *'arā*, ‘animal kept tied to ...’ < Eg. *iri*, ‘companion’. HSED 14 proposes a AA \*’ar-, ‘husband’, base mainly on Cush. But a possible connexion with /’ara/ 1) > ‘tattooed, marked’ < ‘branded’ (cf. *supra*), said of slaves and animals, as a way of keeping them attached or under control, is not to be ruled out. On the other hand, the claim of a Sem. etymon \*’iru[ ]- to explain Akk. *erūtu*, *urū*, ‘fish spawn’, related to AA. \*’ur, ‘fish’, is probably unnecessary (cf. Akk. *arū*, ‘to become pregnant’; CDA 80).

Akk. *arūru*, ‘outlet of channel’, LW/KW (?) or alloph. of *ḥarārum* (?).

Akk. *a:erū(m)*, ‘to become pregnant’ < /hry/.

Akk. *a:erū*, ‘to cut off’ (< /’<sub>1</sub>?rū/, cf. AHW 72) < (?).

Akk. *arū(m)*, ‘result, product (math.)’ < Sum. LW.

Akk. *āru(m)*, ‘warrior’ < *ayyaru*, ‘young man’ (cf. Ar. *'ayru*, ‘penis’).

Akk. *arū(m)*, ‘to vomit’ < ? of AA origin (cf. HSED 31) or preferably onomatopoeic.

Akk. *a:eru/urū*, *ḥaru*, ‘branch, frond’ < *ḥarū*, ‘palm shoot’ (< *ḥarārum* (?))

Akk. *arru*, ‘a weapon’, *arītu(m)*, ‘shield’ (cf. Ug. *art*) < LW (?).

Akk. *ayyaru(m)*, ‘flower’ < (?); cf. Heb. *'ōrāh*, ‘mallow’ (*Malva rotundifolia*) < ? (Ug. *ur* and *art* do not exist; cf. HALOT 25; HSED 15).

Akk. *ayyāru*, month name, LW in WS (Heb., Phoen., Aram., Syr., Ar. Ge.; cf. Murtonen 1989:89), possibly a intens. denomin. in origin, probably to be distinguished from the month name Akk. Nuzu/Alalakh *ḥiari*, Ug. *ḥyr* < /’r/, ‘donkey’ (cf. MECohen 1993:374f., 39; Pardee 2000:422 n. 24; Durand 2002:69 n. 165).

Akk. *e:arū*, ‘eagle’ < AA \*’ar-/\*’war- (HSED 15; Murtonen 1989:100f.; cf. Heb. *'āri*, *'aryēh*, ‘lion’, JAram., Syr., Mand. *'aryā*, ‘lyon’, Ar. *'arwīyatu*, ‘ibex, wild sheep’, Ge. *'arwē*, ‘wild animal’, Tig. *'arwē*, ‘snake’) < Eg. *rw*, ‘lion’, Ber. *awar*, ‘wild animal’ (cf. HALOT 87: ‘African loan-word’). HSED 15f. distinguishes two original different etymons (\*’ar-/’war- and \*’a-ruw-), but the length of of the Akk. lexeme favours a single Semitic etymon. Cf. also Akk. *armu*, ‘mountain goat’, a possible contrastive allophony.

Akk. *ūru(m)/urru*, ‘roof’ < Sum LW.

Akk. *ūru(m)/urū*, ‘pudenda, pubic triangle’ < *erū(m)*, *arū*, ‘to be naked’ (< /’ry/).

Akk. *ūru(m)/ḥūru* ‘limb, shaft’ > Sum. LW; like also Akk. *ar(um)*, *ḥaru(m)* probably unconnected with AA \*’irVy-, ‘stick’ (HSED 30; cf. CDA 25, 427). Ar. *'iry-*, ‘twig’, related to the ‘tent’, is semantically suspect and secondary (cf. *supra* Ar. *'iryu*, ‘stable’ < /’ry/, ‘to tie’; cf. AEL 51).

Akk. *urū*, ‘a bowl’ < Nuzi (?).

Ug. *irt*, ‘breast, slope’ (cf. Akk. *irtu*, *e:arūtu*, Syr. *ra(’)tā*, Ar. *ri’atu*; also Akk. *ūru(m)/ḥūru* ‘limb, shaft’, possibly a PrimW of AA origin: \*’ūr-, ‘belly, stomach’ (HSED 36; Murtonen 1989:390, suggests a monoconson. root /r/, in turn related to *ūru(m)/ḥūru* cited above, although a derivation from the base /ḥr(r)/, Akk. *ḥarāru*, ‘to dig’: ‘ext. stat. of part of body ...’; D ‘of part of a body, stat. ‘is hollowed out’; ‘make incisions’ (CDA 107), is not to be ruled out.

Ar. *'aryu*, ‘honey’ < (?) (this lexeme does not exist in Ug.; cf. *nbt*).

Tig. *'ərora*, ‘slope, declivity’ < (?) /ḡyr/.

Amh. *'awwārā*, ‘poussière (soulevée par le vent)’ (cf. DRS 13), (<humo <fuego?) smoke, fire.

/ʔvS-/

### 1 - First level: simple base

\*/ʔaS-/ **PrimW** (?), non attested as a simple base, N/SWS. **BS:** ‘sudden bad condition /situation’: **Heb.** *’āsôn*, ‘fatal accident’ (cf. HSED 25); by metonym. **Ar.** *’asanu*, ‘grief, sorrow, distress’ (cf. also DMWA 18), *ma’satu/ ma’sātu*, ‘tragedy, drama’ (DMWA 18); by conson. intens. **Ar.** *’assa*, ‘to corrupt, expropriate’ (DFA 30).

The deriv. morph. **Ar.** *’aswatu*, ‘example, model’ (DMWR 18), is not easily explained from this base (by enant. or as a metonym. shift < the painful situation as ‘exemplary’, ‘endurable’ (?)). - **SF:** Elementary human situation.

/ʔəS/ Of onomatop. origin, WSS.: **Ar.** *’as*, *’is*, ‘cry used to keep the sheep afar’, *’assa*, ‘to keep away the sheep by crying ‘Is! Is!’ (DAF 30; also the epenth. intens. alloph. **Ar.** *’aws*, ‘shepherd’s cry on driving? the flock’ (according to DRS 13).

The lexeme is no longer documented in modern Arabic and may be a late dialectal innovation. - **SF:** Husbandry.

### 2 - Second level: expanded base

/ʔaSaY-/ Denom. predic. deriv. by expan. /-ya/ < \*/ʔas-/ > /ʔas(a)+ya/, SWS. **BS:** ‘to experience a bad condition’: **Ar.** *’asiya*, ‘to grieve, mourn’ (cf. also DMWA 17f.).

**Ar.** *ya’isa*, *’ayisa*, ‘to despair’ (AEL 137, 2973f.; cf. also **Ge.** *’ayasa*, ‘to waste away, languish, be turbulent, quarrel, groan in distress’ [CDG 50]) could be considered prefix. and infix. expansions of this base. But the **Heb.** form /yʔs/ connects them with the base /ʔaš-/ (cf. *infra*), even if semantically the first proposal is more suitable; there is possibly a coalescence of bases. Although semantically related, the **Heb.** morph could be of different origin (‘despair’ ≠ ‘to give up’). HSED 25 suggests an AA \*’icay, ‘to be sad, angry’, as the etymon of **Ar.** /ʔsy/ (Murtonen 1989:97).

/ʔaSaW-/ Deriv. verb by expan. /-wa/ < \*/ʔas-/ > /ʔasa+wa/, CS alternative expansion with contrastive value (enant.) **BS:** ‘to help escape from/overcome the bad condition’, to cure’: **Akk.** *asû(m)*, ‘physician’; **NWS:** **EpAram.** *’sy*, ‘to heal’, ‘physician’, *’syw*, ‘cure’; **Aram.:** **JP/BAram.** *’sy*, ‘to cure, heal’, *’sy*, *’āsya*, ‘physician’; *m’assā*, ‘healer’ (DTT 724); **Syr.** *’asī*, ‘to cure’; **Mand.** *asa*, ‘to heal’, ‘to strengthen’; **Ar.** *’asā(w)*, ‘to dress a wound’ > ‘to make peace’, and by semant. shift > ‘to be patient, to imitate, be equal...’; **Eth.:** **Ge.** *’asawa*, ‘to heal, give power’.

It is commonly derived as a LW from < **Sum.** a-zu, ‘Wasserkundiger’ (AHw 76; cf. also HALOT 73; DRS 27, CDG 45; etc.), later borrowed in **Aram.**, **Ar.** and **Eth.** So we would be dealing here with a ‘cultural’ word, for which such a loan is quite appropriate. Nevertheless the final long vowel remains unexplained in **Akk.** and points to a verbal root /ʔ-s-w/. This means that the loan must be considered as in the opposite direction, i.e. as a Sumerian etymologization of a Semitic lexeme (?) (cf. Steiner 2003:639). The verbal root, not extant in **Akk.**, but present in all the other Semitic languages, points in the same direction, unless we assume a denom. predic. derivation from **Sum.-Akk.**

On the other hand, NWS /ʾsm/, ‘to gather’, ‘granary’ (Ug., EpHeb., Heb., JAram./Syr. [ʾassānā]; cf. DNWSI 88; HALOT 73f.; LS 35; LW < Akk. *išittu* < \**išintu*, NA *isittu*; cf. Murtonen 1989:97), CS /ʾsp/, ‘to gather’ (Akk. *esēpu*, Ug. and Heb. /ʾsp/) and also CS /ʾsr/, ‘to bind’, ‘bond’ (cf. HALOT 75), cannot be proved to be suffix. /-p.m:r/ expansions, through a traceable semantic shift, either from \*/ʾas-/ or from another hypothetical and unattested root (\*/ʾvs-/). Instead it seems to be an instance of allothesis by aleatoric substitution of the third (sonant/labial) stop. Even /ʾsr/, ‘to gather’, in Ar., Heb., Aram. (cf. HALOT 82) points toward a more ample ‘resonance’.

The base /mʾs/, ‘to refuse’ (Akk., Heb., Aram.; Murtonen 1989:253), could be related to /ʾas-/ as a prefix. /m-/ expan.; but cf. *supra* /mʾn/ for a possible allothesis.

### 3 - Homographs/Loanwords

The following the conson. Akk. homographs can be listed:

*asaʾītu, asītu*, ‘tower’ < (?)

*asu(m)*, ‘myrtle’ < (?)

*asû(m)*, a wooden part of a loom < (?)

*isu(m), issu*, ‘jaw’ < (?)

*asu(m)*, ‘bear’ (< Sum.)

*essû, esû*, ‘hole in the ground, clay pit’.

/ʾ-š-/

#### 1 - First level: a) simple and b) intensified base

/ʾvš-/ Biconson. base with conson. intens. > /ʾašš-/ , SWS. **BS**: ‘psychological exaltation’: Ar. *ʾaššu*, ‘vivacity, vanity’, *ʾašša*, ‘to be very much alive and vain’, *ʾašāšu*, ‘liveliness, vanity’ (DAF 34).

Possibly also Akk. *ašāšu(m)*, ‘to be distressed’, may belong here by a privative (enant.) shift, as is possibly the case with the expansion Ar. *ʾašā*, ‘to forge (a lie)’, *ʾašīya*, ‘to be in need’ (DAF 36), all of which are semes of psychological reactions. Possibly Soq. *ʾéš*, ‘to push’, also belongs here. But this base is suspect and does not exist in any other Semitic language, not even in modern Arabic. Furthermore, no expansions can be clearly ascertained. Possibly this is a retro-contamination of sibilants in Ar. or an onomatop. resonance. Its relationship to Ge. *hašaya*, ‘to make happy, to give joy’, Akk. *hašāšu*, ‘to swell, be happy’, is not to be ruled out, as an allothetic variant and different expan. pattern. On the other hand, the Ar. homograph *ʾaššu*, ‘dry bread’, adduced by Cohen (DRS 34), is not listed in the principal lexica. – **SF**: Psychological reaction.

/ʾaš-/

#### 1 - First level: a) simple base

\*/ʾaš-/ Biconson. base with spontaneous epenth. glide. /-w-/ , WS. **BS**: ‘action/object of giving’: **Amor.** PN /ʾwš/ (CAAA 14); **Ug.** *ʾušn*, ‘present, gift’, with /-n/ expan. and monophthongisation; **Heb.** PNN /ʾ-š/; and with a specialised meaning? **Heb.** \**ʾiššeh*, ‘sacrifice’, pl. *ʾiššim*; (but cf. also *infra* /ʾəš/ c) ‘fire’, and contamination is also possible: ‘gift by fire’); **ESA/ENA**: /ʾš, ʾwš/, ‘present’ (Tairan 1992:65f.); **Ar.** *ʾawsu*, ‘present’, (DAF 68), cf. *infra* Ar. *ʾāsa*, ‘faire un don’. Also Phoen.-Pun. *m ʾš*, probably ‘votive donation’.

But as an alternative etymology cf. also < Amor. /wš/, ‘to help’ (CAAA 14). An original trilit. base /ʔawš-/ cannot be ruled out. Instead, HSED 17 takes \*aš- as an AA base, with a correspondence in Sab. /sʔy/ (!) (cf. *infra*, \*/aš-/). - **SF**: Primary social action.

/ʔaš-/ a) **PrimW** by vocal. intens. (/y-/) W/SS. **BS**: ‘strong’ > ‘male animal’: **NWS**: Phoen.-Pun., EpHeb., EpAram., Palm., Hatr. /ʔ(y)š, /št, pl. /šm, /nš/t-, ‘man’; **Heb.** /yš, ‘man, male’; **ESA**: Sab. /ysʔ, ‘man, leading warrior’.

AA \*/üs-, ‘man’ (HSED 36; also Rapallo 2000:2025ff.). This is possibly a PrimW (cf. the following deriv.) not to be deriv. from any other base (but cf. Murtonen 1989:96f.: </nš/). - **SF**: Elementary biological constituent.

/ʔaš-/ b) **PrimW** with conson. intens., NW/SS. **BS**: ‘strong’ > ‘assuring, fortifying point’: **MHeb.** \*/wš/, hitpol. ‘to be strong, confirmed’ (DTT 35; HALOT 100), /uš, ‘foundation’ (DTT 35); **Aram.:** BAram. pl. /uššayā, ‘Foundation’; JAram. /uššā, ‘foundation’, ‘fortification’ (DTT 35); JBaram.: /št, ‘bottom, lowest part, hold’; **ESA**: Sab. /sʔ, ‘base, socle’; **Ar.** /ussu, ‘foundation, basis, origin, root’, by meton. > ‘remain, relic’; /asāsu, ‘foundation, basis’; **MSA**: Meh. /as, /šḥ. /es, ‘difficulty’, as a metaph. shift for ‘firm, strong thing’, cf. the caus. prefix. expan. /sōs, ‘foundation’ (ML 338); Jibb. /səs, ‘foundation’.

Cf. Murtonen 1989:103. These are two different morphs. lexemes from the same base, produced by allomorphic distributive (vocal./conson.) intens. with different semantic shifts from the the same BS. - For Ar. \*/aysa [neg. /aysa], ‘there is’, Arm. (Imp. Eleph. (?)) /ays, ‘existence, être’ (cf. DRS 18) cf. *infra* /ʔvt/. - **SF**: Elementary material and sociological constituent.

/ʔaš-/ c) **PrimW** with no clear conson. intens. E/NWS. **BS**: ‘fire’: **Akk.** /išatu(m); **Ebl.** /ʔišātu(m)/ (VE 783); **Ug.** /išt; **Heb.** /eš, suff. /išš-; **Aram.:** EpAram. /š, /šh; BAram. /eššā; JP/BAram., /yšh/t; Syr. /ešatā; Mand. /šata (MD 357f.); **Eth.:** Ge. /esāt; Tig. /asat; Amh., /asat; Gur., /asat, ‘fire’.

To be distinguished from /ʔər-/ (cultic//profane?) and without denomin. derivations, unproductive in Sem. < possible (nostratic) IE (Sansk.) etym. (DRS 36), that justifies the original triple homography. By cause-effect meton. > Ge. /te’sit, ‘scum (of metals)’ (CDG 569) - On the derivation < /ʔaš-/ ‘gift, present’ for Heb. /iššeh, ‘sacrifice’, as preferable to denomin. from < ‘fire’; cf. Pardee 2000:28 n. 57; HALOT 93f. (but this meaning for Ug. /itt is dubious). Later contamination of roots is possible. Cf. AA \*/s-, ‘fire’, HSED 22; Murtonen 1989:102f.

## 1 - First level: b) intensified base

\*/ʔaš-/ Denom. predic. deriv. by vocal intens. < /ʔaš-/ > /ʔāša/, **WS. BS**: ‘to offer a gift’: **Heb. PNN** /ʔāšal, /yʔwš; **Ar.** /āsa, ‘donner, faire un présent’ (DAF 68); cf. also the possible alternat. allophon. expan. /-ya/ **ESA**: Sab. (?) /sʔw:y, ‘to bring, send, find, be present’ (cf. HSED 17).

/ʔaš-/ Denom. predic. deriv. by conson. intens. < /ʔaš-/ b) > /ʔaš(a)ša/, **CS. BS**: ‘to lay the foundations’: **MHeb.** /iššeš, ‘to make firm, found’ (DTT 130); **Ar.** /assa, /assasa, ‘to lay the foundation’; **Eth.:** Tig. /assāsā, ‘to set in order’. Cf. possible semantic shift > Amh. /assāsā, ‘to scout, sweep’ (?), and Mand. /ašasa, ‘bundle of reeds, raft’. And maybe also Akk. /ašāšu, a type of nest made by water fowl.

For the possible Akk. isogloss *uššušu* < *uššu*, ‘foundation’, cf. AHW 1442 (but possibly < *eššu*, *edēšu*, ‘to renew’).

On the other hand. Zaborski 1971:54 quotes a root /ʾ-šš/, ‘to despair’ with allomorphs in Ar. *ya’isa*, ‘ayisa’, and also in Ge. /ʾayasa, ‘esa, ‘to waste away, languish, be turbulent, quarrel, groan in distress’ (CDG 50), BHeb. /y’š/ N and Pi. (cf. HALOT 382), MHeb. *yē’ēš*, Aram. *yē’as*, ‘to give up’ (DTT 560), possibly as privative (enant.) derivations (cf. Jastrow l.c.) of /ʾəš-/. But they could also be triconson. metathesis/allothesis: the biconson. base is not independently attested with that seme (/ʾ-s/, /y-s/ (?)). These Ar. morphs could also be allomorphic metathesis (allothesis) of /ʾasaya/ (cf. *supra*).

## 2 - Second level: expanded base

It is difficult to assess the prefix. expansions of this base.

CS. /raʾš-/, ‘head’, could be considered as such (< /ʾəš-/, ‘strong’; cf. in this connexion Eilers 1987-1988:39, following Kechrida 1984-1985 < Sem. /ušš-/, ‘Grund(lage), Foundation’), but its nature of PrimW disallows this derivation (cf. Murtonen 1989:391). This derivation becomes more evident in the case of Heb./Aram. *rō’š*, ‘poisonous plant’.

Other possible expansions are more controversial, above all the well-attested CS /ʾnš/ has a strong probability of being an infix. expan. of < /ʾəš-/, ‘strong’, BS: ‘manifesting strength, power’: Ug. *’inš*, *nšm*, (< /ʾnšm/), ‘man, individual’, ‘people > (dead) human beings’, *bunušu* = Akk. *amēlum* (Ug. V 244-245); Heb. *’nōš*, ‘human beings, man’; Aram.: BAram., JPArAm. *’nāš*, ‘mankind’, ‘person’; Mand. *anaša*, ‘human being’; ESA: Sab. *’ns*, ‘man, husband, leading warrior’; Ar. *’u:insu*, *’insānu*, pl. *’unūsu*, ‘human being’, ‘a numerous company of men’, *’insiyu*, ‘human’, and deriv. *’anisa*, ‘to be sociable’; Eth.: Tig. *’enās*, ‘man’; MSA: Meh. *’ans*, ‘human beings’; cf. Akk. *tenēstum*, ‘people’. And the apheretic forms /ns/ in various languages, for instance Ar. *nās*, ‘people, mankind’ (Hava 15: < /ʾnšm/; cf. also > *nisā*, ‘woman’, by complementary distribution(?), but cf. HALOT 93: < /nis-/). This base, as an AA expansion (PrimW?), may be related to Ber. *āles*, ‘man, husband’ (Essai 82). Instead, HSED 28 considers that the common AA \*’i-nas, ‘man’, goes back, by epenthesis, to AA \*nūs-, ‘man’ (p. 407), which however could well be an apheretic base as noted already (but a suffix. expan. /-ša/ < /ʾa:ən-/ 2), ‘strength, power’, cannot be ruled out; cf. also Rapallo 2000:2020, 2025ff.). On the other hand, the common deriv. < Ar. *’anisa*, ‘to be friendly, intimate’, seems semantically less feasible (cf. HALOT 73; DUL 84) and is to be explained the other way round. Instead, Murtonen 1989:96, distinguishes two Hebrew /ʾnš/ roots, a distinction which I consider phonologically incorrect. Cf. CDG 382 for a discussion of the root in Eth. Also Ug. *anš*, ‘muscle, tendon’, points in another direction (</ns-/; cf. Heb. *nāsheh*, Aram. *našyā*).

In any case, this possible expansion is not to be related to /ʾnt/, Ar. *’anuta*. The partial semantic coincidence is secondary. As is clear from the ESA and Ar. Evidence: ESA *’nt*, Ar. *’untatu*, Meh. *tēt* (< /ʾnt/), Ug. *att*, Heb. *’iššat*, Phoen. *’št*, BAram. *’nth*, JAram. *’in:ttetā*, Syr. *’attā*. Mand. *anta*, *anat* (cf. Akk. *iššu(m)*, *aššatu*, LW < Can.), Ge. *’anest*, Tig. *’essi*, *’anes*, Tigñ. *’anesti*, Amh. *anəst*, Gur. *ənəst*, ‘female, woman’. An original phonological convergence (allophony) of both roots should not be presumed, since the semes are not related; a later contamination is quite evident. On the other hand, an infix. derivation /expansion of this root from < /ʾ-t/ is not clear.

As it was the case for /rʾš/, Akk. *išaru(m)*, Ug. *ušr*, ‘penis’ could be taken as a suffix. deriv. from < /ʾəš- b), ‘strong’, ‘male animal’, but this is probably a PrimarW. By the same analogy (cf. *supra*), Eilers 1987-1988:39, suggests the expansion /ʾaš-d- > Akk. *išdum*, Ug. *išd*, ‘foundation, Fuss’, Heb. *’āšēd*, ‘Berghang’; but the BS, as componential analysis indicates, is different: foundation as support/lower part. – Some consonantal homographs, such as Ar. *’awsu*, ‘wolf, jackal/ Ge. *’awest*, ‘bird of prey’, or Ar. *’āsu*, ‘myrtle’, may be denominative from this base in origin, but we cannot trace their semantic shift with certainty.

### 3 - Homographs/Loanwords

Here are some of the conson. homographs of this cluster, among the many in Akk., for which no apparent relationship with the bases identified above is to be found:

- Akk. *ašātu*, ‘reins’ < (?).  
 Akk. *ašiš*, ‘part of a chariot’ < (?).  
 Akk. *ašāšu(m)*, ‘to be distressed’ < (?).  
 Akk. *ašītu(m)*, ‘metal band’ < (?).  
 Akk. *ašītu(m)*, ‘midday’ < (?).  
 Akk. *ašū(m)*, ‘a disease of the head’ < (?).  
 Akk. *ašu*, a kind of field < (?).  
 Akk. *ašu*, ‘living creatures’ < (?).  
 Akk. *ašu*, ‘to retch’ < (?).  
 Akk. *ašu(m)*, ‘distinguished, noble’ < (?).  
 Akk. *ešū(m)*, ‘to confuse’ < (?).  
 Akk. *ušu(m)*, ‘diorite’ < (?).

/ʔaṣ-/

#### 1 - First level: a) simple base

/ʔaṣ-/ **PrimW** with conson. intens. SWS. **BS:** ‘something strong enough to support/tighten anything’: **Ar.** *’iṣṣu*, ‘root, foundation’ (DAF 36); > *’aṣūṣu*, ‘strong, robust’ (DAF 36). Not attested in modern Ar.

This is an alternative alloph. resonance of /ʔaš-/ , also related to /ʔaṣ-/ , ‘tree, wood’ (cf. also /ʔaz-/ and /ʔaz/) - **SF:** Basic structure/quality.

#### b) First level: b) intensified base

/ʔaṣa/ Denom. predic. deriv. by vocal. intens < /ʔaṣ-/ > /ʔāṣa/, NWS. **BS:** ‘to exert force, oppress’: **Heb.** *’āṣ*, ‘to urge, to be in haste, to be too narrow’, MHeb. *’aṣeh*, ‘squeezed’ (DTT 32).

/ʔaṣa/ Denom. predic. deriv. by conson. intens. < /ʔaṣ-/ > /ʔaṣ(a)ṣa/, SW/SS. **BS:** ‘to be strong, tight’: **Ar.** *’aṣṣa*, ‘to be strong, robust’ > ‘to shine’ (DAF 36); *’aṣṣaṣa*, ‘raffermir’ (DAF 36) // by enant. ‘to be weak’ > ‘to shake’, *’aṣīṣu*, ‘shivering, trembling’ (DAF 36); > Soq. *’ez*, ‘to fear, be afraid’: **Aram.:** JBAr. *’ṣṣ/*, to press, squeeze’.

The various allomorph. expan. /ʔāṣa/, /ʔaṣṣa/, /ʔaṣā/ in Heb./Aram. (cf. DTT 32) strongly support a biconson. origin.

#### 2 - Second level : expanded base

/ʔaṣaW:Ya/ Denom. predic. deriv. by expan. /w:ya/ < /ʔaṣ-/ > /ʔaṣa(a)+w:ya/, SWS. **BS.:** ‘to become/make tight’: **Ar.** *’aṣā*, ‘to thicken (vegetation)’, *’aṣiya*, ‘to appear fat, stout (camel’s hump)’ > ‘to be difficult, complicate (affair)’ (DAF 37); by meton.-metaph. shift: **Ar.** *’aṣiyatu*, ‘date syrup’

(< ‘dense’) (DAF 37); and by different metaph.-meton. (poetic?) semantic shifts from the BS: Ar. *’aṣiyatu*, ‘disgrace’/‘favour’/‘relationship’ (DAF 37).

As suggested above, resonance contamination with /’aš(a)ša/ is possible in this expansion. The base is not extant in modern written Ar.

From other possible expansions of this base, the following infix. forms are quite probable:

NWS: /’mš/, ‘(to be) strong’: Ug., Heb., EpHbr. /’mš/, Pi. ‘to make strong’/’strong’; and NWS: /’lš/, ‘to press’: Heb. /’lš/ Pi. ‘to importune’; Aram.: Syr. *’elaṣ*, ‘to oppress’; Mand. *alṣ*, ‘to press’; Jaram., Syr., *’ulṣānāh*, ‘distress’ (Hurvitz 1913:97); cf. NWS *mlṣh* ? (DNWSI 645).

Also semantically Ar. *’aṣlu*, ‘root, foundation’ and *aṣala*, ‘to have root, to be firm’, and derivatives, seem lexically a suffix. expansion related to *’iṣṣu*, ‘root, foundation’; the form is present in Heb. in the deriv. transformation *’āṣil*, ‘noble’ (< ‘well rooted’); as well as in Nab. *’ṣl*, ‘property’.

However, CS /n’s/, ‘to spurn, slander’ or the like (Akk., Ug., Heb., Jaram.; cf. Ar. /nws/, ‘to avoid s.o.’; cf. Murtonen 1989:269) is not easily explained as a prefix. expansion of /’əṣ-/. The same must be said of the consonantal homographs: Ar. *’aṣīṣu*, ‘flowerpot’ (in use nowadays); Aram. *’aṣūtā*, ‘basin’; Ar. *’aṣīṣatu*, ‘line of houses’. The possible semantic shift is not apparent.

/’aT-/

### 1 - First level: a) simple base

/’aT-/ 1) **PrimW** (?) with alternative conson./vocal. intens, E/WS. **BS**: ‘something indicating another thing > astonishing’: **Akk.** *ittu(m)*, ‘sign’ (AHw 406); **Heb.** *’ôṭ*, ‘sign’; **Aram.:** BAram. \*’āt, ‘sign’; Jaram. *’t*, ‘sign’; Syr. *’atā*, ‘sign’; Mand. *ata*, ‘mark, sign’; with glide **ENA:** Tham., *’yt*, ‘t’ ‘signe, prodige’ (cf. DRS 12; the reference to < /’wy/ does not seem feasible); **Ar.** *’āyatu*, ‘sign, token’. The Ar. verb *’ayā* (*’āyatan*), ‘to put a sign’, seems to be a denominative from this base, but a derivation of /’ay-/ as a functor of identification cannot be excluded; or else contamination should be considered.

Cf. Murtonen 1989:86. For the related term Akk. *ittu*, ‘peculiarity’ a deriv. from < *i:edatu*, *adānu* < /w<sup>o</sup>d/(?) is suggested, but a semantic shift from the basic seme would explain the nuance adequately. Ug. *at*, ‘omen, ominous sign’ (cf. DUL 121) is discussed as a possible reading (cf. Pardee 2000:553). - **SF**: Basic experience.

/’aT-/ 2) Lexicalisation of the former as functor, E/NWS. **BS**: *nota accusativi* as ‘indication of...’: **Akk.** *attū-*, ‘belonging to’ with poss. pron. suff.; **NWS**: Phoen., Pun, Phoen., EpHeb., EpAram., Palm. *’yt’/’t*; **Heb.** *’et/t*, *’ôṭ*, with phonol. contamination with /’əṭ-/ by complementary distribution by conson./vocal intens.

Less probable > *’iyy-* > *’yt* > *’t* > *t*, functor of object (cf. DRS 16-17 (?)). Cf. *infra* /’ay-/ b); Testen 1997-1998:215-221; Testen 1997:655-660; Dolgopolsky 1999:43-46. - **SF**: Gramm. structuration.

/’əT-/ **PrimW** (?) with alternative conson./vocal. intens., E/WS. **BS**: ‘(at this) side’, ‘border, neighbour’ > functor: **Akk.** *itū(m)*, ‘boundary, neighbour’, *itu-*, *ittū-*, ‘with’, *ita*, ‘adjacent to’; **NWS**: Phoen., Pun. EpHeb. *’t*, ‘prep. with, near, beside’; **Heb.** *’et*, *’itt*, functor ‘together with, by the side of’. Possibly derivation from the original seme is Heb. *’itôn*, ‘exterior’ (# *p<sup>o</sup>nīmī*) (cf. HALOT 44: unexpl.)

A possible original relationship of the two morphs/phenotypes can be postulated, since the ‘side or frontier mark’ could be the prototype of sings. - **SF**: Dimension of landscape.

### 1 - First level: b) intensified base

/ʔ**a**Ta/ Denom. predic. deriv. by conson. intens < /ʔət-/ > /ʔat(a)ta/ (?), SW/SS. **BS**: ‘to incline to one side’ (cf. Sp. ‘ladear’); **Ar.** ‘atta’, ‘to conquer’ (DAF 7; no longer extant in modern Ar.); **Eth.:** Ge. ‘atata’, ‘to be removed, taken away, faint’; Amh. ‘attätä’, ‘to remove, take away, to commit’; > by vocal. alternative intens. > (?) Soq. ‘óti’, ‘faible’.

### 2 - Second level: expanded base

/ʔ**a**Ta**W:Ya**/ Denom. predic. deriv. by expan. /-w:ya/ < /ʔət-/ > /ʔat(a)+w:ya/, CS. **BS**: ‘motion to’, ‘to approach’, ‘to (be)come near to, to this side’, in contrastive opposition to the former: **Akk.** (w)atû(m), ‘to find’ (?); **Ug.** ‘atw’, ‘to come, go’; NWS: Pun., EpAram., Palm., Nab., Hatra ‘t’:h, ‘to come, to go’; **Heb.** ‘ātā, ‘to come’; **Aram.:** BAram. /ʔth/, ‘to come’; JP/BAram. ‘ty, ‘to come’; Syr. ‘etā, ‘to come, arrive’; Mand. ata, ‘to come’; **ESA:** Sab. ‘atw:y, ‘to come, come back’; **ENA:** Tham. ‘ty; ‘to come’ (cf. DRS 36); **Ar.** ‘atā(w:y), ‘to come’ (also DMWA 3); **MSA:** Soq. ‘ete, ‘to pass, run, cross, go’; **Eth.:** Ge. ‘atawa, ‘to come, return’; Tig., ‘ata, ‘to enter, come’; Tigñ. ‘atāwā, ‘to enter, come’. By meton./metaph. **Ar.** ‘atā(w), ‘to put forth fruit’ (cf. Eng. ‘income’), ‘atwu, ‘way, course, mode ...’; **Eth.:** Amh. atet, ‘fortune, richness’, atat ‘usury’ [cf. Lat. ‘producere’ and the commercial vocabulary, ‘movement (of accounts)’; Sp. ‘entrada’; also possibly EpAram. ‘yt, ‘receipt’ (?); Tig. ‘awätä, ‘to be a creditor’ (with epenth. ?)]; also, by a different semantic shift; **Ar.** ‘atwu, ‘a great person’ / ‘vehement disease’ (‘something that happens suddenly’, cf. Latin ‘advenire’(?)), ‘atiyyu, ‘what falls’, ‘an energetic man’.

Possibly **AA** \*at- goes back to the PrimW /ʔət-/ as its predic. realisation or as a denom. deriv. indicating motion to or along the ‘border’ (Sp. ‘bordear’; cf. Essai 79; HSED 18; Murtonen 1989:104).

No other expansion can be assigned to this base with certainty.

Ar. sa’atu, ‘throat side’ and the denomin. predic. sa’ata, ‘to strangle’ (DAF 1035) are possible. On the other hand, the MHeb. form nē’ôt, ‘to be agreed’ (HALOT 26; cf. Pun. /ʔwt/ (?)) is in line with the semantic development as we find for instance in Sp. ‘ponerse del lado de’. Also Jibb. ‘emt, ‘to, towards’, represents a lexicalised infix. expansion /-m-/ of this base. Instead, LS 77 distinguishes a second ‘éte, ‘to unite’, as a /-t-/ infixed form of /ʔwy/, ‘to go somewhere’.

The consonantal homograph Akk. atû(m), ‘gatekeeper’, is a < Sum. LW(?); also, both Akk. ittû(m), ‘seed-funnel’, and Heb. ‘ēt, ‘ploughshare’, seem to be KW/LW < Sum. (?). However, it is difficult to see how Ar. ‘atwu, ‘butter’, can belong here.

### 3 - Homographs/Loanwords

Akk. uttūtu, ‘terror’ < (?).

/ʾəṭ-/

**1 - First level: simple base**

/ʾəṭ-/ Biconson. nomin./predic. base with vocal. intens./epenth, CS. **BS:** ‘consistency, basic affirmation’: **Akk.** *išum*, ‘to have’, neg. *laššu*, ‘(there) is not’; **Ug.** *’it, itti*, ‘to be, exist’; **Heb.** *yēš/’iš*, ‘to exist, be’, ‘property’ (with alloph. /’:y/); **NWS:** EpHeb. *yš*, EpAram. *’yt(y), ’t*, Palm., Nab. *’yt(y)*, ‘there is’, ‘existence’; **Aram.:** BAram. *’itay*, ‘existence’ < ‘there is’ (HALOT 92); JPAram. *’t*, ‘there is’; Syr. *’it*, ‘to be’, *’itya*, ‘essence’. With anomalous alloph. transformation, Ar. neg. *laysa*, ‘not to be’ (DAF 1048; < \*[la-yisa] < \*[la-yitai (?)]; cf. HALOT 443); the original form is possibly reflected in the conson. intens. form Ar. *’attu*, ‘grand, abundant’, *’atta*, ‘croître en abondance’ (DAF 9f.).

No expansions are extant nor is the root present in Ar. Or should Ar. *’atā(y)*, ‘to denounce a fact to the authorities’ < ‘to give it consistency’ (?) (DAF 12), be related to this root as an archaism? The base is possibly of nostratic origin, cf. IE *es-*, ‘to be’ (IEW 340) - **SF:** Elementary experience.

/ʾaṭ-/

**1 - First level: simple base**

/ʾaṭ-/ 1) Biconson. nomin. base with conson. intens. NWS. **BS:** ‘slow and soft movement’: **Heb.** *’aṭ*, ‘dejected mood, gentleness’, *l’ ’aṭ, lā ’aṭ*, ‘gentl(y)’.

As a prefix. expansion, /š-/ may be considered Heb. *š’āṭ*, ‘disdain’, by a privative semantic bias (< ‘to make/consider of no value, of low courage’), but its convergence with /šwṭ/, ‘to spurn’ (also in JAram., Syr., Mand., Akk. [*šātu*] and even with NWS /šwṭ/, ‘whip’), makes it difficult to decide the direction of the expansion: either an /šṭ/ infix. or an /’aṭ/ prefix. On the other hand, Heb., Aram., Syr., Mand., Ar. /’ṭm/, ‘to stop up (one’s ear, lips)’, exhibit a more obscure semantic relationship. - **SF:** Movement/psychological attitude.

/ʾaṭ-/ 2) Biconson. predic. base. Of onomatop. origin. **SWS:** ‘sound produced by the saddle’: **Ar.** *’aṭṭa*, ‘to creak, produce a sound (the saddle)’ and similar, *’aṭṭu*, ‘creaking sound of the saddle’, and deriv. in the world of the camel.

Cf. Murtonen 1989:88. - **SF:** Onomatopoeic sound.

**3 - Homographs/Loanwords**

Among the conson. homographs:

Akk. *ūtu(m)*, ‘span, half-cubit’ < (?) (cf. Ug. *uṭ*; Ebl. *Udum*, DUL 123).

/ʾaW-/

**1 - First level: simple base**

\*/ʾaW/ 1) CS functor: ‘disjunctive as expression of choice, agreement, desire’.

Cf. Monoconsonantal 64-65. There is no evidence of a simple base \*/ʔaW-/ , NW/SS, **BS**: ‘action of meeting, agreement’; but /ʔaw/ 1) could be derived from it by lexicalisation. Instead, Zaborski 1971:54 refers to the root /ʔw:y/, ‘to be nice’, with allomorph. /n-/ , /y-/ expansions in Heb., but I consider that the two bases have to be kept separate, since the second conson. is a constituent, not an alternative expan.; cf. *infra* /ʔy-/. Contamination between the two bases is easy to assume. - **SF**: Elementary social experience / discourse function.

/ʔaW/ 2) CS functor. exclam. deixis.: expression of surprise and pain and sorrow: **Heb.** ʔôy, ‘ah!’, with expan. suffix. /ʔaw+y/; **NWS**: Phoen. ʔwy, ‘woe!’, ‘to lament’ (?); **Aram.:** NArām. ʔô, ‘o (vocative)’, ‘oh’, /ʔwy/ = *uy*, ‘alas!’ (cf. the alloph. *way*, ‘woe!’); **Eth.:** Ge. ʔawet, ‘shout, cry’ > ʔaw(a)wa, ‘to shout’; Amh. *awalä*, ‘to cry, bark’; and possibly with expan. by a suffix. /-n/, Palm., Nab. ʔwn, ‘sarcophagus’.

Cf. Monoconsonantal 64; Murtonen 1989:84f. < as an imper. form of /ʔw(y)/, ‘choose!’; I would reverse the derivation): suprasegmental diversification, cry of onomatopoeic origin. By semantic objectivation the names of various animals can be derived from this onomatopoeic lexeme (cf. a wolf howl) in the various Semitic languages: Heb. ʔiy(yim), ‘jackal’, Syr. (*benat*) ʔawway, ‘*canes aurei*’; Ar. (*ibn*) ʔāwā, ‘jackal’. Possibly of AA origin (cf. Essai 81; HSED 31). - **SF**: Elementary exclamation.

## 2 - Second level : expanded base

/ʔaWaYa/ Denom. predic. deriv. by expan. suffix. /-ya/ < /ʔəw-/ > /ʔaw(a)+ya/, WS. **BS**: ‘to express/make a choice’: **Heb.** ʔiwwāh, *hit ʔawwāh*, ‘to wish’/‘to crave for’, ʔawwāh, ‘desire, longing’, N. *na ʔāwāh*, ‘to be beautiful, lovely’, *ta ʔwāh*, ‘longing, sighing’; **NWS**: Phoen. ʔwy, ‘to desire’ (?); **Aram.:** Syr. ʔewā, ‘to agree with’, ʔawyā, ‘unanimous’; Ar. ʔawā(y), ‘to be compassionate towards s.o.’, and by semantic shift ‘to betake to for/to give refuge’, *ta ʔawwā*, ‘to gather’, *mā ʔwā*, ‘abode’; > Ge. ʔayaya, ‘to make equal’, ʔayāy, ‘equal, associate’ > (?) ʔay(y)āyāt, ‘harvest’?; ʔayāt, ‘wafer (of honey)’ > (?) ʔay(y)āyāt, ‘pure honey’ (?); Soq. Gt ʔete, ‘to unite’.

With secondary expan. by /-an/: Syr. ʔawwānā, ‘abode, house’, ʔawanta, ‘abode’; Mand. *auana*, ‘quarter, precinct, living-room’. Also Akk. *awīt(m)*, ‘value (of goods)’, could be related to this base through the seme ‘to wish’ or ‘agree’. The ambivalence of the psychological seme involved may explain the variety of the semantic nuances in the various languages: to choose > to wish > to love > to agree > to unite > to gather > to be compassionate > to take/give refuge... Note the following additional possible expansions:

Heb. *nā ʔweh*, /nʔh/, /nwh/, /ʔwh/, i.e. the seme ‘beautiful, delightful’, may represent a contamination of bases or rather prefix. /n-/ expansions of the latter (HALOT 657, 678; cf. Zaborski 1971:55).

Heb. *tʔô*, ‘antelope < appears to be a LW, but cf. the next entry.

Sab. *tʔw*, ‘to collect (water)’ <? (cf. SL 10 < /ʔwy/ as /t-/ expan.?).

Syr. ʔawtā, ‘*acacia nilotica*’ <?

Ge. ʔawaya, ‘to be sweet’ <?

/ʔaY/

## 1 - First level: a) simple base

/ʔaY/ a) Primary deictic exclam. of surprise /ʔa:iy-/ , E/WS. **BS**: exclam.: **Akk.** /ai/, *ā*, *ayyi*, *ayya/u*, ‘alas!’; **Heb.** ʔi(y), woe! = ʔôy; **NWS**: Nab. ʔyh, ‘oh!’, with expan.; **Aram.:** JPArām. ʔy, ‘oh!’, emphatic

particle used before participles (DJPA 47); JBArAm. 'î(y), 'woe!.(DJBA 109; as a particle > 'yt, *supra*); Syr. 'y, interj.; NAram. 'wy (*ui!*), 'alas!', 'y(ê), ah!; **Ar.** 'ayā, a vocative particle used in calling, 'O', 'ho there!; by semantic deriv. > 'no'; **Akk.**, *ai, ē*, 'not'; **NWS:** Phoen. 'y, negation (?); **MSA:** Soq. 'ē, part. of negation; **Eth:** Ge. 'i-, negative prefix. part.; Tig. 'i, 'not'; Tigñ. 'ay, expresses negative future; Amh. *i*, prefix. negative part. as a suprasegmental alternative imprecation; cf. Ar. 'î(y), 'yes!' (DMWA 36), due to the ambiguity of the psychological reaction.

**SF:** Elementary exclamation.

**/ʾaY-/ b)** Lexicalised deictic exclam. < /ʾaY/: 1) with spontaneous conson. intens. /ʾayy-/ , CS. **BS:** expression of surprise, identification: 'what is this' > 'voilà!' > 'which?' > 'anyone': **Akk.** *ayyu(m)*, 'which?', *ai*, 'where?'; **Amr.** 'ajja, 'where? (CAAA 13); **Ug.** *ay*, 'anyone', *iy*, 'where?'; **NWS:** Phoen., Pun. *ay*, 'where?'; **Heb.** 'ê(y), 'where?', by intens. 'ayyêh, 'where?'; **Aram.:** Syr. 'aynā, 'which?', 'aykā, 'where?; NAram. (')êkâ, 'where?'; **MSA:** Meh. *hō* < /ʾyn/, where; **Ar.** 'ayyu, 'who?', which?'; 'ay, '(that is (to say), namely (DMWA 36); **Eth.:** Ge. 'ay, 'which, what?'; Tig. 'ayi, 'which?'; Tigñ. *ayān*, 'which?, who?'; Gur. *e*, 'where'. 2) With spontaneous vocal. intens. **Ar.** 'āyatu, 'sign' > 'ayya, 'to put a sign by which to be known', *ta'āya*, 'to direct the course, the body towards' (cf. Sp. 'señalar la dirección') and its functorial use before the pers. pron. 'iyya- (but cf. *supra* /ʾat-/ 2)). - Expan. /-ya/ > /-wa/ by dissim. or contrast. suff. (?): Ar. 'aywa, 'oui' (DRS 16); > Meh. 'yw(h), 'ēwa(h), 'yes' < 'ay-wā(h), Eth.: Ge. 'əwwa, Amh. *awo*, Gur. *āwo*; Jibb. 'ēwəh, 'ayweh., 'yes'.

Cf. ChCohen 2004:13\*-15\*. On the other hand, Ug.-Heb. /ʾi/, 'oh!'/, 'surely', Ar. 'î(y), 'yes!' (cf. Cohen 2004:16\*-17\*) may be considered a transformation from either of the quoted bases /ʾay/ (cf. *supra*) through suprasegmental enant. - **SF:** Elementary exclamation.

Other phenotypes are related to the deictic base /ʾ-y/ + -n (cf. *infra*; DRS 24-25): Heb. 'ayn, 'whence?'; Ar. 'ayna, 'where?'; < rhetorical question > negation: Ug. *in*, 'there is not'; NWS 'yn, 'there is not'; Heb. 'ayn, 'non-existence', '(there is) not'; Pun. 'yn, 'there is not'; cf. metath. Akk. *ya'anū*, 'there is not' < *ayyānum*, 'where', common semantic shift. Their possible relationship to IE *ēneu, ēnu*, 'without' (IEW 318), is somewhat problematic.

Also, the semantic shift from local to temporal meaning can be derived from the same lexical bases: 'moment, indefinite time' (AEL 119) when? < > where?; cf. Ar. 'ayna, 'where?' and 'ayyāna, 'when?'; Ar. (*al-*)(')ān, 'present time, moment' (DAF 71, 75) and its intens./expan.: 'a:īwānu, 'a time' (AEL 129), Ar. 'anā, 'to come the time, be near ...' (AEL 118f.), 'inyu, 'moment, indefinite time' (AEL 119) and its shift 'the utmost point or degree'; > Tig., Tigñ. (')əwan, 'time', cf. Heb. 'ānā, Pi. 'to cause to happen' (HALOT 70). Cf. AA: Eg. *wnwt*, 'hour' (Essai 83). The relationship to Nostratic 'am/ʾem, 'time, moment', is problematic (NM 578).

## 1 - First level: b) intensified base

**/ʾaY-/ Denom. predic. expan. </ʾay/ > /ʾay(a)ya/ SS. BS:** 'to become so and so, adequate to (< 'anyone')': **Eth.:** Ge *ta'ayaya*, 'to make equal, even out'; Tig. 'ayay, 'relative, kinsman'; cf. CDG 51 > Syr. /ʾwy/, 'to agree', 'āwē, 'in agreement', cf. *supra*).

This expan. (as well as those using /ʾaw-/ and /ha':y-/) may be connected with the metath. alternation /ya'-/ and its expan.: Heb. /y'y/, 'to be proper, fitting'; Ar. *ya'ya'a*, 'to show kindness'; Ge. *yawwaha, yawha*, 'to be gentle'; Pun. *y'*, 'beautiful'; JPArAm. *yā'ê*, 'fair, comely', *y'yw*, 'beauty'; JBArAm. *yā'*, 'oh!', *yā'ût*, 'well, properly'; Syr. *yā'*, 'oh!', *yāyā*, 'beautiful', *yāyûthā*, 'beauty'.

## 2 - Second level: expanded base

There are no clear expan. bases of this cluster :

Ar. *'ayā*, 'to stop at, to head for...' (DAF 76; but not extant in modern written Ar.) is not easily related to any /ʔay-/ b). HSED 18f. proposes an AA base \*ʔay-, 'to come, run', possibly connected with AA \*ʔa-, 'to walk, run' (?).

Heb. /ʔym/ II, 'to frighten', < *'āyōm*, 'terrifying', *'ē(y)māh*, 'fright, horror'; EpAram. *'ym*, 'terror, frightful thing', JOAram. *'ymh/'ymt*, 'fear'; BAram. / JP/BAram. *'ēmtān*, 'fearsome, terrifying', may represent a suffix. /-m/ expan. of < /ʔay/ a) (< 'to cry 'ah!' ').

Ug. *šiy*, 'assassin'; Ar. *sā'a/sa'ā*, 'to displease'/'to create disorder', could also be taken as a prefix. /š-/ expan. of /ʔay/ a) (< 'to cause fright, to make s.o. cry 'ah!' (?))

## 3 - Homographs/Loanwords

As for the consonantal homographs:

Akk. *ayyītu*, '(a leather strap) for a door' < (?).

Heb. *'ayyāh*, 'vulture'; Ar. *yu'yu*, hawk > possibly of onomatop.(?) origin from the animal's cry; cf. *supra* /ʔaw:y/; of AA stock, cf. Cush./Bilin *'ayā*, 'falcon' (*Essai* 78; Murtonen 1989:89).

Phoen.-Pun. *'y*, 'coast, peninsula'; Heb. *'i*, pl. *'iyyīm*, 'island', instead, seems to be a LW < Eg. *iw*, 'island' (cf. *Essai* 81; Murtonen 1989:89).

JP/BAram. *'ī(y)*, 'whether' < *'in* (NWS *'im*).

Elsewhere, the confusion of the bases /ʔaw-/ and /ʔay-/ (and even of /ʔat-/) in some derivations, especially in Ar., must be taken into account.

### \*ʔaZ-/

#### 1 - First level: a) simple base

\*ʔaZ-/ Biconson. base with spont. intens. WS/SS. **BS:** '(to be in) agitation, fever'.

Not attested as a simple base. – Cf. Eg. *3s*, 'hurry, flow fats' - **SF:** Basic (physiological) experience (animal's body).

#### 1 - First level: b) intensified base

/ʔaZ-/ Denom. predic. deriv. by conson. intens. < \*ʔaz-/ > /ʔaz(a)za/. ES/SS. **BS:** 'to set in agitation, to heat': by intens. and expan. /-ya/ (cf. *infra* /ʔazaya/): **Akk.** *ezēzu*, 'to be(come) angry'; **Ar.** *'azzā(i)*, 'to boil, make a boiling sound'; *'azzā(u)*, 'to kindle a fire to for boiling, to put in a state of violent motion, to stir up'; *'itazza*, 'to become angry'; by enant. Ar. *'azīzu*, 'sharpness' > 'cold', '(feverish) chill' (DAF 28; cf. Sp. 'tiritar de frío/ fiebre', Fr. 'froissoner'); **Eth.:** Ge. *'azzaza*, 'order, comand, exercise dominion'; Tig., Tigñ., Amh., Gur. *'azzāzā*, 'to command'; by meton. < 'to set in motion, incite', already in Ar. *'azza*.

/ʔaZ-/ Denom. predic. deriv. by vocal. intens. < \*ʔaz-/ > /ʔāza/, SWS. **BS:** 'to become hot because of increasing proximity to the goal' (?) (by meton [cf. Sp. ¡caliente, caliente!]) > 'to heat by agitating together' > 'approaching each other' < cause-effect (Sp. 'frotar, agitar' > includes both semes: 'to

join' and 'to heat'); **Ar.** *'āza*, 'être proche, vis-à-vis de', as already by intern. conson. intens. and meton. deriv. (?) **Ar.** *'azza*, 'to approach something to another thing' (DAF 28). The alternation of the two forms of intensification, prove the actual importance of the simple base, as does the semant. relationship: 'hot/close' (not listed either in DAF or in AEL).

## 2 - Second level: expanded base

**/ʾaZaW:Ya/** Denom. predic. deriv. by expans /-w:ya/ < \*/ʾaz-/ > /ʾaz(a)+ya/, WS. **BS:** 'to irradiate heat': **Akk.** *ezû(m)*, 'to hurry, be hasty', by metaph. shift (?); **Aram.:** JP<sub>Aram.</sub> *'zy*, 'to heat, burn'; **Ar.** *'azā*, 'to be high (said of the shadow)', as a consequence of the heat/sun (DAF 30); > probably by semant. shift: **Ar.** *'azā*, *'aziya*, 'to gather, to shrink', by meton. cause-effect (?) < by boiling, possibly dialect. (DAF 30). Also **Ar.** *'aza'a*, 'to go back by fear' (DAF 28), by deriv. contrast. distribution; 'to satiate', by metaph. shift (< 'to heat'?; possibly < /<sup>c</sup>z(z)/, 'to be strong').

No other expan. can be proved for this cluster.

## 3 - Homographs/Loanwords

**Ug.** *'uz*, 'goose' = **Akk.** *ūsū(m)*, **Syr.** *wazzā*, **Ar.** (*'i*)*wazzu*, KW either < **Sum.** *'uz*. (AHw 1438f.) or AA (cf. Murtonen 1989:85); the root is uncertain: /w-z/, /z-ʾ/. For Steiner 2002:635, 646) a LW in **Sum.** from **Akk.** JB<sub>Aram.</sub> *'azz*, 'to make erect (ears)' < ? /ʾzz/ (cf. DJBA 99); or better < /ʾzn/ < /ʾdn//, by progressive assimilation.

**Ar.** *'azā*, 'to put a front', *'izā'u*, 'front, opposite, facing part' > 'corresponding' > 'manager' > 'means of sustenance' > 'place where the water is poured ...' (AEL 55f.; DMWA 14: IV and n.) < ?

\* \* \* \* \*

Leaving aside the internal vocal. and conson. intensifications (lengthening) and geminations (reduplication) of the root, let us sum up the external root expansions in order to visualise their productivity and possible semantic significance. Some nominal lexemes with varying certainty as expansions are also mentioned.

### Prefixation

Expansion by prefix. is rare in this series. We can propose, with a certain degree of probability, only the expansions by /y-/ and /t-/:

/ta+ʾaba/, 'to long for' < [\*/ʾab-/ 2)] (NWS).

/ta+ʾawa/, 'to collect (water)' < [\*/ʾaw/] (Sab.).

/ya+ʾaba/, 'to desire' < [ʾab- 2)] (NWS).

/ya+ʾala/ N, 'to act foolishly' < [ʾal/] (Heb.)

Other expansions by /h-/, /m-/, /n-/ and /š-/:

/ha+ʾaba/, 'to flower' < [ʾəb-/] (Syr.).

/ma+ʾada/, 'to be(come) many, abundant' < [ʾad-/] (E/NWS).

/ma+ʾana/, 'to refuse'/'to be disgusted' < [ʾa:ən-/ 1) (Heb./Syr.).

/ma+ʾara/ 'to be unfriendly, to hate', 'to reopen a wound' <(?) [ʾa:ēr-/] (Ar.).

/ma+ʾasa/, 'to refuse' (E/WS), cf. /mʾn/ for a possible allothesis.

- /na+ʔaqa/, ‘to groan’ < [ʔaq-/] (CS).  
 /na+ʔata/, ‘to be agreed’ < [ʔət-/] (MHeb.; cf. Pun. /ʔwt/ (?); cf. Sp. ‘ponerse del lado de’).  
 /ša+ʔala/, ‘to made one's own cry heard’ > ‘to exclaim’ > ‘to ask’ < [ʔal/] (CS).  
 /ša+ʔapa/, ‘to gasp for air, to pant, to strive’ < [ʔəp:f-/] (NWS).  
 /ša+ʔaya/, ‘to displease’/‘to create disorder’ < [ʔay-/] (Ar.).

Also, less certain and with enantiosemy, the /n-/ expansion(?):

- /na+ʔapa/, ‘to be(come) dry’ <(?) [ʔəb-/] (Akk.).

The semantic valence of these expan. morphemes is not specially significant. The lack of evidence precludes firm conclusions. The ‘causative’ valence of prefix. /h-/ , /š-/ and /y-/ is much clearer, in keeping with its morphosyntactic value in NWS. In fact all three affix. expansions may well represent lexicalised morphs of the inflexional verbal system that have survived as independent phenotypes.

Some nominal expansions can also be listed:

- /l+ʔm-/ , ‘people, tribe’ < [ʔəm-/] (CS).  
 /m+aʔs-at-/ , ‘disaster’ < [\*ʔas-/] (Ar.).  
 /m+ʔr-/ hif., ‘painful, malignant’ (Heb.).  
 /m+ʔš/, probably ‘votive gift’ < [\*ʔaš-/] (Phoen.-Pun.).  
 /n+ʔd-/ , ‘luxuriance’, ‘luxuriant crops’ < [ʔad-/] (ESA).  
 /n+ʔd-/ , ‘calamity’ < [ʔad-/] (Ar.), by enant.  
 /n+ʔm-/ , ‘to murmur, emit confused noises’ [ʔam-/] (Heb., Ar.)  
 /n+ʔr-/ , ‘to repudiate’ (Heb.),  
 /nā+ʔw-/ , ‘beautiful, delightful’ < [\*ʔaw/] (Heb.; cf. /nʔh/, /nwh/, /ʔwh/).  
 /r+ʔm-/ , a wild animal < [ʔam-/] (CS).  
 /r+aʔš-/ , ‘head’ < [ʔəš-/] (CS).  
 /r+ēʔš-/ , ‘venom’ < [\*ʔəš-/] (NWS)  
 /ša-ʔal-/ , ‘underworld’ < [ʔal/] (Heb.).  
 /ša+ʔat-/ , ‘side of the throat’ > *saʔata*, ‘to strangle’ < [ʔət-/] (Ar.).  
 /ša+ʔāt-/ , ‘disdain’ < [ʔāt-/] (Heb.).  
 /ša+ʔiy-/ , ‘assassin’ (Ug.) < [ʔay-/] (Ug.).  
 /t+ʔm-/ , ‘twin’ < [ʔəm-/] (CS).  
 /t+ʔr-/ , ‘glory’, ‘presence’ <(?) [ʔa:ēr-/] (NWS).  
 /ta+ʔaw-/ , animal name < [\*ʔaw/] (Heb.).

## Infixation

Infixation seems to be not only rare in the series, but also semantically not very self-evident, sometimes implying a semantic shift that is not easy to trace. Possible examples are as follows:

- /ʔa+ha+ba/, ‘to like, love’ < \*ʔab-/ 2) (NWS).  
 /ʔa+ha+ra/, ‘to be inflamed, infected (tooth)’ < [ʔa:ēr-/] (Meh.).  
 /ʔa+la+ša/, ‘to press’ < [ʔəš-/] (NWS).  
 /ʔa+ma+ša/, ‘(to be) strong’ < [ʔəš-/] (NWS).  
 /ʔa+ma+ra/, ‘to see’, ‘to say’, ‘to order’ <(?) [ʔa:ēr-/] (CS).

The following are more obvious:

- /ʔa+m(i)+ḏa/, ‘to be indifferent to offences’ <(?) [\*ʔad-/] (Ar.).  
 /ʔa+n(a)+ḥ:ḥa/, ‘to sigh, groan’ < [ʔaḥ-/] (E/WS).  
 /ʔa+n(a)+ḥa/, ‘to breath hard, with a hemming in his throat’ < [\*ʔaḥ/] (Ar.). Note also:

/ʾa+n(a)+pa/, ‘to snort > ‘to be angry’ < [ʾanp-/] (Heb.), which is an infix. /-n-/ expansion or nasalisation of /ʾəp:f/.

/ʾa+na+qa/, ‘to groan’ < [ʾaq-/] (CS), an allophone of /nʾq/, /nhq/.

/ʾa+na+ša/, ‘to be(come) weak’ < [ʾəš-/] (CS).

/a+r(r)ä+zä/, ‘to wear out, to be wanting’ <(?) [\*/ad-/] (Amh.).

/ʾa+w:ya+ha/, ‘to utter a cry of grief’ < [ʾah/] (SWS).

/ʾa+y(a)+da/, ‘to show force, power’ < [ʾad/] (WS/SS).

The expan. infix. /-w:ya-/ is very similar to the vocal. intens. and could be considered a secondary development of it. Much in the same line, the infix. /-n-/ expansion could be taken as a case of spont. nasalisation, especially of labial stops. Instead, the case of /-h-/ could be a clearer example of epenthetic infixation.

The following nominal infix. expansions can be mentioned:

/ʾu+l+ṣ+ān-/ ‘distress’ < [ʾəṣ-/] (Syr.).

/ʾə+m+t-/ ‘to towards’ < [ʾət-/] (Jibb.).

/ə+n/m+b-/ ‘fruit, flower’, ‘flower(-shaped jewellery)’ < [ʾəb-/] (Akk.).

/ʾi+n+b-/ ‘fruit, produce’ < [ʾəb-/] (JAram.).

/ʾa+n:m+bub-/ ‘tube, flute, (reed-)pipe’ < [ʾəb-/] (Mand.).

/ʾu+n+būb-/ ‘an internodal portion of a reed or cane’ [ʾəb-/] (Ar.).

/ʾa+n+aq-/ ‘small goat’ <(?) [ʾaq-/] (Ar.; > Akk. *anāqāte*, she-camels).

/ʾa+n+āš-/ ‘the strong’, ‘man’ < [ʾəš-/] (CS).

/ʾi+n+y-/ ‘moment, indefinite time’ < [ʾay-/] (Ar.).

/ʾa+š+r-/ ‘joy’ <(?) [ʾa:ēr-/] (Phoen.).

/ʾa+y(a)+l-/ ‘stag, deer’ < [ʾəl-/] (CS).

/ʾa+wa+l-/ ‘the most prominent in power’, ‘the first’ < [ʾəl-/] (E/WS).

/e+w+īl-/ ‘fool’ <(?) [ʾal/] (Heb.).

/ʾa+w+s-/ ‘present’ < [\*/a-š/] (Ar.).

/e+y+al/ ‘strength’ < *ʾayl*, ‘mighty tree, pillar of an archway’ < [ʾəl-/] (Heb.).

/i+y+al-/ ‘help’ <(?) [ʾəl-/] (Syr.).

/ʾa+y+š-/ ‘existence, being’ < [ʾəš-/] (Aram., Ar.: neg. *laysa*).

## Suffixation

The suffix, however appears as the most significant means of root expansion, with the possibility of singling out a particular semantic specification for each of the expan. morphemes<sup>20</sup>. The most productive, as might easily have been expected, are the suffix. /-wa/ and /-ya/ expansions, the first with a more marked steady ‘stative’ aspect:

/ʾab(a)+wa/, ‘to become a father’ [< /ʾab-/ 1] (WS/SS).

/ʾaḥ(a)+wa/, ‘to become a brother, tied to’ < [ʾaḥ-/ a] (CS).

/ʾam(a)+wa/, ‘to become a slave’ [<\*/ʾam-/ 1] (WS/SS). And less clearly:

/ʾas(a)+wa/, ‘to help escape from/to overcome a bad condition’, ‘to cure’ [<\*/ʾas-/]. In this case we have to take into account the deriv., if it is correct, the supposed enantiosemic process and in general the possible secondary exchange between /w/ and /y/ as expan. morphemes<sup>21</sup>.

20. For an outline cf. Hurwitz 1913:70ff.; Moscati 1964:168f.; Ehret’s classification (1989:198f.), however, seems over-imaginative.

21. Cf. Moscati, 166.

In this case the apparent ‘anomaly’ in South Semitic (Ar., Ge.) regarding the presumed ‘stative’ semantic value, must have been induced by the contrastive distribution imposed by Ar. *ʔasiya*, ‘to grieve, mourn’ from the same original etymon /ʔas-/ with a transitory ‘stative’ aspect (cf. also /ʔaša(a)+w:ya/ and /ʔaz(a)+ya/. A similar situation can be seen in:

/ʔad(a)+wa/, ‘to show superior, dominant position or power’ [< /ʔad-/] (E/SWS) and /ʔad(a)+ya/, ‘to exert/suffer a superior/inferior dominant (economic) position or power’, although this time according to a more original normal distribution of the semantic values of both expan. morphemes.

The /-ya/ expansion, instead, has a clear ‘effective’ or factitive aspect regarding the basic meaning of the biconsonantal cluster involved:

/ʔab(a)+ya/, ‘to take a decision, positive or negative: to will/refuse’ [< /ʔab-/ 2)<sup>2</sup>] (WS/SS).

/ʔab(a)+ya/, ‘to product fruit, to fructify’ [< /ʔəb-/] (CS).

/ʔad(a)+ya/, ‘to exert/experience a superior/inferior dominant (economic) power’ < [/ʔad/] (E/WS).

/ʔad(a)+ya/, ‘to produce an \*/ʔad-/’, ‘damage’, of any kind’ [< /ʔad -/] (WS).

/ʔad+n/, ‘to dismiss, to allow s.o. to depart’ < [\*/ʔad-/] (ESA).

/ʔad(i)+ma/, ‘to be angry against, to persecute s.o.’ <(?) [\*/ʔad-/] (Ar.).

/ʔz+y/, ‘trouble, distress’ <(?) [\*/ʔad-/] (Sab.), allophone (?).

/ʔak(a)+ya/, ‘to feel in a bad mood, to show it’ [< /ʔak-/] (SS/Eth.), possibly originally /ʔak(a)+wa/, according to the normal semiconsonantal switch in south Semitic. In any case, ‘to show a bad mood’ may easily equal ‘to behave in a bad mood’. Cf. also Akk. *i:ekû(m)*, ‘to starve, deprive (of food)’, ‘impoverished, bereaved’.

/ʔal(a)+ya/, ‘to utter an /ʔal/ cry’ < [/ʔal-/] (WS); normally the denom. predic. reproducing onomatop. sounds are factitives of the /-ya/ type.

/ʔal(a)+ya/, ‘to show/exert power’ < [/ʔəl-/] (WS/SS), but the Ar./Heb. variant seems to be stative with enant. shift and so /ʔal(a)+wa/, ‘to fall short of’.

/ʔan(a)+ya/, ‘to groan’ < [\*/ʔa:ən-/ 1)] (WS), of onomatop. origin.

/ʔap(a)+ya/, ‘to encircle’, ‘to cover’ < [/(ap-/] (NE/NWS).

/ʔap(a)+ya/, ‘to blow the fire’, ‘to cook, boil’ < [/(əp:f-/] (CS), of onomatop. origin.

/ʔaq(a)+ya/, ‘to displease (of food)’ < [/ʔaq-/] (Ar.).

/ʔar(a)+ya/, ‘to burn’ < [/(a:ər-/] (SS), once again the Eth. realization [-wa] is idiosyncratic.

/ʔas(a)+ya/, ‘to experience a bad condition’ < [\*/ʔas-/] (SWS), cf. *supra* on the possible origin of this apparently anomalous morphosemantic phenotype.

/ʔaš(a)+ya/, ‘to forge (a lie)’ < [/(vš-/] (Ar.).

/ʔaš(i)+ya/, ‘to be in need’ < [/(vš-/] (Ar.).

/ʔaš(a)+ya/, ‘to bring, send, find, be present’ < [/(aš-/] (ESA), the phenotype is extant only in Sab., in alternation with the most common type /ʔāša/, ‘to offer a gift’ (Ar./Heb.).

/ʔaša(a)+ya/, ‘to become/make tight’ (vegetation)/‘to look out fat’ < [/(əš-/], this is the same alternation of factitive/stative phenotypes already pointed out in the case of /ʔas(a)+ya/ in Ar.

/ʔaw(a)+ya/, ‘to express/make choice’ < [/(əw-/] (WS).

/ʔaz(a)+ya/, ‘to irradiate heat’ < [\*/ʔaz-/] (WS), here also Ar. exhibits an alternative morphosyntactic variant [/(w:ya)].

/ʔa(y)n(a)+ya/, ‘to come the time, be near ...’ (Ar.) > /ʔā(y)na+ya, Pi. ‘to cause to happen’ (Heb.).

Other suffix. expansions appear to be less productive, especially in verbal phenotypes. In this connexion we can list a few with a factitive bias, in keeping with the semantic value of the morphemes:

/ʔaba+ha/, ‘to act as a superior authority’ > ‘appoint a subordinate’ < [/(ab-/ 1)] (SS).

/ʔaga+ma/, ‘to burn hot, glow’ < [\*/ʔa:əg-/] (E/WS).

/ʔaṭa+ma/, ‘to stop up (one’s ear, lips)’ < [ʔaṭ-/] (WS).  
 /ʔaya+ma/ ‘to frighten’, < ʔyōm, ‘terrifying’, ʔ(y)māh, ‘fright, horror’ < [ʔay-/] (Heb.).  
 /ʔana+ša/, ‘to manifest/produce physical pain’ < [ʔa:ən-/ 1)] (WS).  
 /ʔara+ša/, ‘to desire’ <(?) [ʔa:ēr-/] (E/NWS).

Expansion by a suffixed /-r/ seems to be less tolerated:

/ʔapa+ra/, ‘to cover’ < [ʔap-/] (Akk.).

However quite a number of nominal suffix. expansions (/h-, -l, -n, -r, -y/) can be singled out, some based on intensified conson. bases:

/ʔab(b)(v)+r-/ , ‘strong, robust’, male animal, ‘bull, horse’ < [ʔab-/ 1)] (E/NWS).  
 /ʔəb+r-/ , ‘limb, wing, *membrum virile*’ < [ʔab-/ 1)] (E/WS).  
 /ab+ša/, ‘term of respect for women’ <(?) [ʔab-/ 1)] (Tigñ.).  
 /abu+al-/ , ‘offspring, young creature’ <(?) [ʔab-/ 1)] (Mand.).  
 /ʔab(b)a+y-/ , ‘prayer’ (Aram., Mand) < [ʔab-/ 2)] (WS/SS).  
 /ʔeby+ān-/ , ‘poor’ (Amor., Ug., Heb.) < [\*ʔab-/ 2)] (WS).  
 /ʔad+ān-/ , ‘owner of power, lord’ < [ʔad-/] (NWS).  
 /ʔad+m-/ , ‘man’ <(?) [ʔad-/] (CS).  
 /ʔad+r-/ , ‘wonderful, strong’ <(?) [ʔad-/] (WS).  
 /ʔād+y-/ , ‘violent waves’ <(?) [\*ʔad-/] (Ar.).  
 /ʔz+l/, ‘to go away’ <(?) [\*ʔad-/] (Aram./Heb.).  
 /ʔaza+l(i)+y-/ , ‘long since past, eternal’ <(?) [\*ʔad-/] (Ar.).  
 /ʔaḥ+r-/ , ‘another’ <(?) [ʔaḥ-/] (CS).  
 /ʔaḥ+l/, ‘if only!’ < [\*ʔaḥ/] (NWS).  
 /ʔak+š/, ‘something disgusting, e.g. spittle, vomit, faeces’ <(?) [ʔ(v)k-/] (Amh.).  
 /ʔal(a)+h-/ , ‘supreme power, god’ < [ʔəl-/] (W/SS).  
 /ʔəl+ān-/ , ‘supreme power, god’ < [ʔəl-/] (WS).  
 /ʔal(l)+ān-/ , ‘something that appears strong’ > ‘oak’ < [ʔəl-/] (E/WS).  
 /ʔûl+m-/ , ‘strength, strong side’ < [ʔəl-/] (Aram.).  
 /ʔê:ûl+ām-/ , ‘porch, entrance’ < [ʔəl-/] (Heb./JAram.).  
 /ʔap+n-/ , ‘that binds, wheel’ (Heb., JAram., Syr.) < [ʔap-/] (NWS).  
 /ʔiš+ar-/ , ‘penis’ < [ʔəš-/] (Akk., Ug.).  
 /ʔās+ān-/ , ‘fatal accident’ < [\*ʔaS-/] (Heb.).  
 /ʔas+an/, ‘grief, sorrow, distress’ < [\*ʔaS-/] (Ar.).  
 /ʔuš+n/, ‘present, gift’ < [\*ʔaš-/] (Ug.).  
 /ʔāš(i)+y-at-/ , ‘date syrup’ < ‘dense’ < [ʔəš-/] (Ar.).  
 /ʔaš+l-/ , ‘root, foundation’ < [ʔəš-/] (Ar.).  
 /ʔāš+îl-/ , ‘noble’ (< ‘well-rooted’) < [ʔəš-/] (Heb.).  
 /ʔş+l-/ , ‘property’ < [ʔəş-/] (Nab.).  
 /ʔa:iw+ān-/ , ‘a time’ (Ar.) > *awan*, ‘time’ (Tig., Tigñ.).  
 /ʔa:i(y)+n-/ , ‘there is not’, ‘non-existence’ (NWS) > *yaʔanu*, ‘there is not’ (Akk.).  
 /[al]-(-)ā(y)n-/ , ‘present time, moment’ < [ʔay-/] (Ar.).  
 /ʔaw(w)+ān-/ , ‘abode, house’ < [\*ʔaw/] (Syr., Mand.).  
 /awa+y-/ , ‘value (of goods)’ < [\*ʔaw/] (Akk.).  
 /ʔay+m-/ , ‘terror, frightful thing’ < [ʔay-/] (NWS).  
 /ʔayn/, ‘whence?’ < [ʔay-/] (Heb.).  
 /ʔay+na/, ‘where?’ (Ar.) < [ʔay-/] (Ar.) > *ayyānum*, ‘where’ (Akk.).  
 /ʔay(y)+āna/, ‘when?’ < [ʔay-/] (Ar.).

Only at the conclusion of our research shall we be able to draw more definitive conclusions on the significance of all the possible morphemic expansions of the biconsonantal bases and on their bearing as productive and inexpensive tools for the development of the Semitic lexicon.

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 CDME R.O. Faulkner, *A Concise Dictionary of Middle Egyptian*, Oxford 1972 (?).  
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*Language abbreviations*

		Gr.	Greek
		Gur.	Gurage
		Har.	Harari
		Hatr.	Hatrean
		Heb.	Hebrew
		IE	Indo-European
		ImpAram.	Imperial Aramaic
		JA	Judean Aramaic
		JAram.	Jewish Aramaic
		JBaram.	Jewish Babyl. Aramaic
		Jibb.	Jibbali
		JParam.	Jewish Palest. Aramaic
		JPA	Jewish Palest. Aramaic
		Lat.	Latin
		Lih.	Lihyanic
		MaghrAr.	Maghrebi Arabic
		Mand.	Mandaic
		Meh.	Mehri
		MHeb.	Middle Hebrew
		MSA	Modern South Arabic
		NAram.	Neo-Aramaic
		NWS	North-west Semitic
		Pers.	Persian
AA	Afro-Asiatic		
AEA	Ancient Epigraphic Arabic		
Akk.	Akkadian		
Amh.	Amharic		
Amor.	Amorite		
Ber.	Berber		
BAram	Biblical Aramaic		
CS	Common Semitic		
Cush.	Cushitic		
Ebl.	Eblaite		
EChad.	Eastern Chadic		
Eg.	Egyptian		
Emar.	Emariote		
ENA	Epigraphic North Arabic		
Eng.	English		
EpAram.	Epigraphic Aramaic		
EpHeb.	Epigraphic Hebrew		
ES	East Semitic		
ESA	Epigraphic South Arabian		
Eth.	Ethiopic		
Ge.	Ge’ez		

Phoen.	Phoenician	enant.	enantisemy, enantisemic
Pun.	Punic	epenth.	epenthetic
Sab.	Sabaic	etymol.	etymology
Saf.	Safaitic	exclam.	exclamation
Sansk.	Sanskrit	expan.	expansion, expanded
SES	South-east Semitic	gemin.	gemination, geminative
Som.	Somali	infix.	infix
Soq.	Soqotri	intens.	intensification, intensified
Sp.	Spanish	KW	Kulturwort
SS	South Semitic	laryng.	laryngeal
Syr.	Syriac	later.	lateral
Šh.	Šahri	LW	loanword
Tig.	Tigre	metaph.	metaphor, metaphorical
Tigñ.	Tigriña	monthn.	month name
Tur.	Türōyo	mythol.	mythological
Ug.	Ugaritic	neg.	negative
YemAr.	Yemeni Arab	nom.	nominal
<i>General abbreviations</i>		onomatop.	onomatopoeia, onomatopoeic
adv.	adverb, adverbial	part.	particle
affirm.	affirmative	p.p.	past participle
alloph.	allophone, allophonic	predic.	predication, predicative
altern.	alternation, alternative	prefix.	prefixed
apoph.	apophonic	PrimW	Primary Word
assim.	assimilation	progr.	progressive
biconson.	biconsonantal	pron.	pronoun
BS	basic seme	reduplic.	reduplication, reduplicative
conj.	conjunction	SF	semantic field
conson.	consonant, consonantal	s.o.	someone
contrast.	contrastive	spont.	spontaneous
denom.	denomination, denominative	s. th.	something
deriv.	derivation, derivative	suffix.	suffixed
design.	designation, designative	synon.	synonymous
deverb.	deverbation, deverbative	triconson.	triconsonantal
dialect.	dialectal	variat.	variation
distrib.	distribution, distributive	vocal.	vocalic
emph.	emphatic	#	with the antonym

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