

Abstract

The article represents the quantitative Nostratic verification scientific results of the degrees of affinity of the Afro-Asiatic, Indo-European and Kartvelian language families, which was carried out based on the procedural steps of diachronic interpretation of the Afrasian *[a] -, Indo-European *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- and Kartvelian *px- that reach the Nostratic *p^ha - (~ *p^h -). The methodological algorithm has been conducted, on the one hand, for the procedure of diachronic interpretation, which involves three stages: 1) morphological level (general morphonemic structure, quality of syllables, shifts (transitions) and coincidences), 2) phonological level (vocal and / or consonant phonemes), alternations, modifications / mutations of vocal and / or consonant phonemes, ictus(´) (if any), shifts (transitions) and coincidences), 3) semantic level (content plan, archiseme(s), shifts (transitions) and coincidences), and on the other hand, for the procedure of quantitative verification, which involves two stages: 1) matrix verification of indicators – building a matrix of phonological, morphological and semantic shifts (transitions) and coincidences, 2) verification of degrees of affinity of Nostratic languages, i.e. establishing the degrees of affinity of Nostratic languages in the triad 'type – metric – relationship'. As a result, it was possible to register a close degree of affinity, corresponding to divergent-convergent development, between Afrasian *[a] - and Kartvelian *px-, a distant degree of affinity, corresponding to convergent-divergent development, between Afro-Asiatic *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-.

Keywords: diachronic interpretation, quantitative verification, Nostratic etymon, Afro-Asiatic, Indo-European and Kartvelian language families.

[*p^há h-ur-], *p^h h-wór- *px- *f[a] -, *p^hé h-ur-
 (~ *p^h -); *p^ha -

: 1) (/) (/)

(-) (), () , 3) (, (-)

() , : 1) () , 2) - -

*px- “ ()”, *f[a] - “ ; , ”

[*p^há h-ur-], *p^h h-wór- “ ”. *f[a] - ; , ” *p^hé h-ur-

H. Pedersen () , A. R. Bomhard,

2) : 1) () () () ()

*p^ha - (~ *p^h -) “ ”.

*Hu a “ ”, *marV “ ”, *wol[a] “ ”, *wete “ ”,

*p^ha - (~ *p^h -) “ ” (2) ; 2) : 1) ()

(3) (3) () () () () () ()

(-) (-) - / (/ () / (-))

(2) : (-) (-) (-) (-)

(-) (-) (-) (-) (-) (-)

(5)

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(2) ;

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(1985):

$$S = \frac{c}{a+b+c},$$

(b) - X Y (/ , (+ b + c)) X (/ , - n.),

() () () / (2) :

1) distance) - (URL: <https://calculatorium.ru/text/levenshtein-> ; 2) /

):

$$D = 1 - \frac{2 \cdot q}{A+B},$$

2) - (/ 1) + B (/ (2) : (2) : . . . ,

1) : . . . ,

0,30, 3,20. = 0,30, = 3,20; 2) = =

*p^ha - (~ *p^h -) “ ”

| | | (семіто-хамітська сім'я) | | | | | |
|--|--------------------|--------------------------|-----------------|---|-----|------|--------|
| *p ^h a - (~ *p ^h -) | “ , ; , ” | *f[a] - | “ , ” “ ” | *p ^h é h-ur- [*p ^h á h-ur-], *p ^h h-wór- | “ ” | *px- | “ ()” |
| *p ^h | | *f | | *p ^h | | *p | |
| *a / * | | *a | | *a / *e / * | | | |
| * | | * | | * | | *x | |

(Bomhard, 2018, Vol. 3, pp. 158-159)

*p^ha - (~ *p^h -) - *CVC- (~ *CVC-),
*f[a] - *CVC-, *f[a] - *CVC-,
*pa -am, *a-f[wa]-
*CVCVC, *pa - *CVC-,
*CVCCV-, *a-f- *CVC-,
(* a * a-f[wa]-) -
(2014).

*p^héhh-ur- [*p^háhh-ur-], *p^h hh-wór- *CVCCVC-
[*CVCCVC-], *CVCCVC-, *p^héhh- [*p^háhh-], *p^h hh- *CVCC- [*CVCC-],
*CVCC-,
*px- * - *px- * - ,

*p^ha - (~ *p^h -) *f[a] -,
*p^héhh-ur- [*p^háhh-ur-], *p^h hh-wór-, *px-
*p^ha - (~ *p^h -) - *CVC- (~ *CVC-) >
*px- - * - / : *p^héhh- [*p^háhh-],
*p^h hh- *CVCC- [*CVCC-], *CVCC-;
(1) , 2) : *p^ha -
(~ *p^h -) - *CVC- (~ *CVC-) (1, 2) > *f[a] - *CVC- (1, 2) / *p^héhh-
[*p^háhh-], *p^h hh- *CVCC- [*CVCC-], *CVCC- (2) / *px- * - (2).

*f[a] - *pa -am,

* a-f[wa]-
: 1)
*f[a] - - *CVC- (1, 2) > *pa - - *CVC- (1, 2) / * a-f- -
*CVC- (1, 2).
()
***p^ha** - (~ ***p^h** -) : 1)
: * (***p^ha** - (~ ***p^h** -)), * (***p^ha** - (~ ***p^h** -))
***p^h** -); 2) * (***p^ha** - (~ ***p^h** -)), * (***p^ha** - (~ ***p^h** -)),
: * (***p^ha** - (~ ***p^h** -)); 3) /
* (***p^ha** - (~ ***p^h** -)), * (***p^ha** - (~ ***p^h** -)).
*f[a] -, ***p^hé** h-ur- [***p^há** h-ur-], ***p^h** h-wór-
() : 1)
* (*f[a] -; ***p^hé** h-ur- [***p^há**h-ur-]), * (***p^h** h-wór-) /
* (***p^hé** h-ur-); 2) : * (*f[a] -;
p^hé** h-ur- [p^há** h-ur-]) / * (***p^hé** h-ur-), * (***p^h** h-wór-); 3)
/ : * (*f[a] -; ***p^hé** h-ur- [***p^há** h-ur-]),
* (***p^hé** h-ur-), * (***p^h** h-wór-).
()
- : ***p^ha** - (~ ***p^h** -); * : ***p^ha** - (~ ***p^h** -) >
* : ***p^hé** h-ur-;
1) : * > *a: ***p^ha** - (~ ***p^h** -) > *f[a] -;
p^hé** h-ur- [p^há**h-ur-] / * > * : ***p^ha** - (~ ***p^h** -) > ***p^h** h-wór-; 2)
: * : ***p^ha** - (~ ***p^h** -) > *a: *f[a] -; ***p^hé** h-ur-
[***p^há** h-ur-]) / * : ***p^ha** - (~ ***p^h** -) > *e: ***p^hé** h-ur- / * :
***p^h** h-wór-; 3) / : * : ***p^ha** -
(~ ***p^h** -) > *a: *f[a] -; ***p^hé** h-ur- [***p^há** h-ur-] / * : ***p^ha** - (~ ***p^h** -) > * :
***p^hé** h-ur- / * : ***p^h** h-wór-.
) / * ***p^ha** - (~ ***p^h** -) ***p^h**
, : * ***p^hé** h-ur-
***p^ha** - (~ ***p^h** -) ***p^h** (Fortson, 2004, 61–62).
1) :
*p,
- * ; 2)
: ***p^h**, * (:
***p^ha** - (~ ***p^h** -); : ***p^ha** - (~ ***p^h** -).
*f[a] -, ***p^hé** h-ur- [***p^há** h-ur-], ***p^h** h-wór-, *px-
() : 1)
: *f (*f[a] -), *p / ***p^h** (***p^hé** h-ur- [***p^há** h-ur-], ***p^h** h-wór-; ***p^h** h-wór-), ***p^h** h-wór-;
* (***p^h** h-wór-), * (***p^h** h-wór-); 2) * (***p^h** h-wór-), * (***p^h** h-wór-); 2)
* (*f[a] -), *p (***p^hé** h-ur- [***p^há** h-ur-], ***p^h** h-wór-); 2) * (*f[a] -; ***p^hé** h-ur- [***p^há** h-ur-], ***p^h** h-wór-), * (***p^h** h-wór-), * (***p^h** h-wór-), * (***p^h** h-wór-), * (***p^h** h-wór-).
()
1) : : *p:
***p^ha** - (~ ***p^h** -) > *f: *f[a] -,

() (, 2008, . 209; Campbell, 1998, pp. 46-47; Ringe, 2006, . 93-102), (; 2) :
 * : *p^ha - (~ *p^h -) > * : *px-;
 () : 1) *p > *p: *p^ha - (~ *p^h -) > *px-;
 *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-); * > * :
 *p^ha - (~ *p^h -) > *f[a] -; *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-; 2)
 : * > *x: *p^ha - (~ *p^h -) > *px-; 3)
 *p: *px-, *p^h: *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-; : * : *f[a] -,
 (~ *p^h -) > * : *f[a] -; *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-, *x: *px-.
 , *f[a] -, *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-, *px-,
 *f , *p , . . .
 , “ ” (, , 1984, . 871). , , (, . 878-879), , , .
 , , -
 *f[a] - () : 1)
 : * ; 2) :
 * ; 3) / : * (*f[a] -).
 *pa -am, * a-f[wa]-
 () : 1) : * ;
 2) : * (*pa -am; * a-f[wa]-) /
 () : 1)
 * : *f[a] - > *a: *pa -am; * a-f[wa]-; 2)
 : * : *f[a] - > *a: *pa -am; * a-f[wa]-;
 3) / : * : *f[a] - > *a: *pa -am;
 * a-f[wa]-.
 () : 1)
 - : *pa -am > () : pe m,
 f ama; 2) : *pa -am > :
 pe m, f ama / : / f m, f m;
 () : 1) : * :
 *pa -am > a: pa m , fa m, fä am, : / f m,
 f m; 2) : * : *pa -am > a:
 pa m , fa m, fä am; 3) / :
 * : *pa -am > a: pa m , fa m, fä am, : pe m,
 f ama, : / f m, f m.
 () : 1)
 - : * a-f[wa]- > : fee / :
 : fo; 2) : * : * a-f[wa]- >
 : fee; : fo; 3) / :

* : * a-f[wa]- > : fo; -
 () : 1) : * :
 * a-f[wa]- > a: afu, afa; 2) : * :
 * a-f[wa]- > a: afu, afa; 3) / : * :
 * : * a-f[wa]- > a: afu, afa, : fee. :
 *f[a] - () : 1)
 :
 *f, - * ; 2) :
 *f, * (:
 *f[a] -; : *f[a] -). *pa -am, * a-f[wa]-
 () : 1) :
 *p (*pa -am), * (*pa -am),
 * (* a-f[wa]-), - * (*pa -am),
 *f (* a-f[wa]-); 2) :
 * , *p, *f, * (:
 *pa -am, * a-f[wa]-; : *pa -am, * a-f[wa]-.
 *pa -am CVC, ,
 “ ” (Huehnergard, 2008, . 231).
 ()
).
 (Moscati et al., 1980, pp. 72–73; Weninger, 2011, p. 152–153),
 *f[a] -, *pa -am.
 :
 (Huehnergard, 2008, . 233).
 - * *pa -am.
 , , :
 (. hamzah) .
 (Orel et al. 1995).
 *p *pa -am * a-f[wa]-
 - , ,
 [h], [] (Blevins, 1994).
 () :
 : *f: *f[a] -) >
 *p: *pa -am; -
 () : 1) : :
 * : *f[a] - > * : *pa -am; 2) :
 : *f: *f[a] - > * : * a-f[wa]-, *p: *pa -am;
 : * : *f[a] - > * : *pa -am, *f: * a-f[wa]-.

1) $*p^h$: f : $fa\ m$, $f\ m$, / $*p$:
 $*pa$ -am > f : $fa\ m$, $f\ m$, / $*p$:
f m, **fä** am, **f** ama;
() : 1) : :
 $*p$: $*pa$ -am > p : **pa** m ; : : * :
 $*pa$ -am > * : $fa\ m$, $f\ m$, / $f\ m$, $pa\ m$,
fä am, $f\ ama$; 2) : : $*p$:
 $*pa$ -am > f : **fa** m, **f** m, / **f** m, **fä** am,
f ama, p : **pa** m ; : * : $*pa$ -am > * :
fa m, $f\ m$, / $f\ m$, $pa\ m$, **fä** am, $f\ ama$.
() :
: * : $*a$ -f[wa]- > :
f: **afa**, **fo**, **fee** **afu**;
() : 1) : :
 $*f$: $*a$ -f[wa]- > f : **afa**, **fo**, **fee** **afu**; 2)
: * : $*a$ -f[wa]-, $*f$: $*a$ -f[wa]- > f :
afa, **fo**, **fee** **afu**).
 $*p^h$ éh-h-ur- [$*p^h$ áh-h-ur-], $*p^h$ h-h-wór-
: 1) : * ($*p^h$ h-ur-) / :
* ($*p^h$ h-ur- [$*p^h$ áh h-ur-]), * ($*p^h$ h-wór-); 2) :
* ($*p^h$ h-ur-), * ($*p^h$ h-wór-), * ($*p^h$ h-ur-
[$*p^h$ áh h-ur-]); 3) / : * ($*p^h$ h-ur-
[$*p^h$ áh h-ur-]), * ($*p^h$ h-ur-), * ($*p^h$ h-wór-).
() :
* : $*p^h$ h-ur- / () : 1) : :
 $*p^h$ h-wór- > : $f\ n$, por ; u : **hur**,
ũ, **fÛr**, **fúrr**, **funi**, **pú**; 2) : :
* : $*p^h$ h-ur- / * : $*p^h$ h-wór- / * :
 $*p^h$ h-ur- [$*p^h$ áh h-ur-] > : **fiur**, **pir**;
u: **hur**, **ũ**, **fÛr**, **fúrr**, **funi**,
pú; () : :
1) : * : $*p^h$ h-ur- > : **fiur**,
pir / * : $*p^h$ h-ur- [$*p^h$ áh h-ur-] / * : $*p^h$ h-wór- > :
pa-a - u-ur, **pa-a** - u-u-u, **panno**; 2) :
: * : $*p^h$ h-ur- / * : $*p^h$ h-wór- > : $f\ n$,
por / * : $*p^h$ h-ur- [$*p^h$ áh h-ur-] > : **pa-a** - u-ur,
pa-a - u-u-u, **panno**; 3) / : :
* : $*p^h$ h-ur- [$*p^h$ áh h-ur-] / * : $*p^h$ h-ur- / * : $*p^h$ h-wór- > : **pa-a** - u-ur,
pa-a - u-u-u, **panno**; : **fiur**, **pir**.
* [$*p^h$ áh h-ur-], * $*p^h$ h-ur-
 $*p$,
* *

(Asingh et al., 1989, .139). * : $*p^h$ h-ur- * : $*p^h$ h-wór-

, , * [*p^há h-ur-] * f n,

(Waterman, 1976).

***p^héh h-ur- [*p^há h-ur-], *p^h h-wór-** ()

: 1) : *p^h ; 2) *p^h,

* (: *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-; : *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-).

()

1) *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > : : () : *p^h:

fiur, fÛr; 2) f: f n,

: * : *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > n: f n,

c panno, r: fiur, fÛr,

pú , . por; - () :

1) *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > p: ã , c panno, *p^h:

pú , pa-a - u-u-u, . por, pa-a - u-ur; : pa-a - u-u-u,

* : *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > : *p^h: *p^hé h-ur-

pa-a - u-ur; 2) : *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > f: f n, fiur,

fÛr, p: ã , c panno, pú , pa-a - u-u-u, . por, pa-a - u-ur; : * : *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- > : pa-a - u-u-u, pa-a - u-ur.

*px- () : 1) *p,

- * ; 2) : : *px-, : *px-).

(: *px-, : *px-), ,

*px- *px-, *p (, 1964).

*px-

+ (, 1995).

***p^ha - (~ *p^h -)** “ , ” - 1) , ; , , ” ; 2) , ; (, 1971, . 170); “ ” - , (, 1974, . 57); “ ” - , (, 1971, . 130); “ ” - , ; (, 1970, . 715); “ ” - 1) , ; 2) , (, 1976, . 102); “ ” - (, 1973, . 48), (4) : 1) ‘ / ’: *p^ha - (~ *p^h -) “ ”; 2) ‘ ’: *p^ha - (~ *p^h -) “ ”; 3) ‘ ’: *p^ha - (~ *p^h -) “ ”. 4) ‘ ’: *p^ha - (~ *p^h -) “ ”. *f[a] - “ ”, *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ”, *px- “ ()”

: *f[a] - : “ , , ”, “ ” – ;
 *p^ha - (~ *p^h -) “ , , ”, “ ” ;
 “ ” –
 (1970: 779); *p^hé h-ur- [*p^há h-ur-], *p^h h-wór-: “ ” – ,
 *p^ha - (~ *p^h -) “ ”; *px-: “ ()” –
 ; (1979: 77),
 (5) : 1) ‘ / *f[a] -
 “ ”; 2) : *f[a] - “ ”; 3) ‘
 ’: *f[a] - “ ”, *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ”; 4) ‘
 ’: *f[a] - “ ”; 5) ‘ /
 ’: *px- “ ()”.
 *p^ha - (~ *p^h -) “ , , ”, “ ,
 , , ” *f[a] - “ , , ”; *px- “ ()”
)”
 : ‘ ’: *p^ha - (~ *p^h -) “ ” >
 ‘ / ’: *f[a] - “ , / ‘ ’: *f[a] - “ ”, *p^hé h-ur- [*p^há h-ur-
], *p^h h-wór- “ ” / ‘ ’: *f[a] - “ ”, *p^hé h-ur- [*p^há h-ur-]
 *f[a] - “ ” / ‘ / , ’: *px- “
 ()”; : 1) ‘ /
 ’: *p^ha - (~ *p^h -) “ ” > *f[a] - “ ,
 ”; 2) ‘ ’: *p^ha - (~ *p^h -) “ ” > *f[a] -
 “ ”; 3) ‘ ’: *p^ha - (~ *p^h -) “ , , ” > *f[a] -
 “ ”, *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ”.
 *pa -am “ ”; *a-f[wa]- “ ”
 : *pa -am: “ ” – *f[a] - “ ”;
 *a-f[wa]-: “ ” – *f[a] - “ ”; *a-f[wa]- “ ”;
 (2) : 1) ‘ ’: *pa -am “ ”; 2) ‘
 ’: *pa -am “ ”.
 *f[a] - “ ”, “ ”, “ ”,
 *pa -am “ ”; *a-f[wa]- “ ”
 ‘ / ’: *f[a] - “ , / ‘ ’: *a-f[wa]- “ ” / ‘ ’:
 *f[a] - “ ” > ‘ ’: *pa -am “ ”;
 : 1) ‘ ’: *f[a] - “ ” >
 *a-f[wa]- “ ”; 2) ‘ ’: *f[a] -
 “ ” > *pa -am “ ”.
 .
 (),
 , , :) ;) -
)
 (),
 . : *p^ha - (~ *p^h -) “ , , ; , , ”,
 *f[a] - “ , , ; , , ”;
 *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ”, *px- “ ()”
 (2)
 *p^ha - (~ *p^h -) “ , , ; , , ” *px- “
 ()” – 0,33, - - *p^ha - (~ *p^h -) “ ,

0,60, *p^ha - (~ *p^h -) “ ” *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ” –
*f[a] - “ ” – 0,73.
*p^h h-wór- “ ”, *px- “ ” (*p^ha - (~ *p^h -)), *p^hé h-ur- [*p^há h-ur-],
*f[a] - “ ” (2)
*px- “ ” (*p^ha - (~ *p^h -)) – 0,15,
*f[a] - “ ” *p^hé h-ur-
[*p^há h-ur-], *p^h h-wór- “ ” – 0,36.
*p^ha - (~ *p^h -) “ ”, *a-f[wa]- “ ”
*pa -am “ ”, *p^ha - (~ *p^h -) “ ” *p^ha -
(2) *a-f[wa]- “ ” –
0,45, *p^ha - (~ *p^h -) “ ”, *pa -am “ ” – 0,84.
(),
*p^ha - (~ *p^h -) *f[a] -,
*p^hé h-ur- [*p^há h-ur-], *p^h h-wór-, *px-
: *p^ha - (~ *p^h -) *px- – 2,00: 1)
*p^ha - (~ *p^h -) *f[a] - – 1,00: 1) *p^h h-
wór- – 1,00: *p^hé h-ur- [*p^há h-ur-], *p^h h-
wór- – 1,00: *p^ha - (~ *p^h -) *f[a] -,
*px- – 3,00: 1)
*f - *p; 2)
*p^ha - (~ *p^h -) *0; 3)
ur- [*p^há h-ur-], *p^h h-wór- *px- – 2,00: 1)
*p^hé h-ur- [*p^há h-ur-], *p^h h-wór- – 2,00: 1) *f[a] -
*p^h; 2) *f -
*p^ha - (~ *p^h -) *f[a] -
“ ”, *px- “ ”, *p^hé h-ur- [*p^há h-ur-], *p^h h-wór- “ ”,
*p^ha - (~ *p^h -) “ ” / *p^ha - (~ *p^h -) “ ” /
“ ” / *p^ha - (~ *p^h -) “ ” /
*p^ha - (~ *p^h -) “ ” > /

$*p^h$ - “ ()”; $*p^h a - (\sim *p^h -)$ “ , ; ,
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” - 0,60: ‘ /
 $*p^h a - (\sim *p^h -)$ “ ” / ‘ ;
 $(\sim *p^h -)$ “ ” > ‘ ; $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”;
 $*p^h a - (\sim *p^h -)$ “ , ; , ” $*f[a] -$ “ ,
 $(\sim *p^h -)$ “ , ” / “ - 0,25: ‘ / ; $*p^h a -$
 $(\sim *p^h -)$ “ , ” / ‘ ; $*p^h a - (\sim *p^h -)$ “ ” /
 $*p^h a - (\sim *p^h -)$ “ ” > ‘ , ” / ‘ ,
 $*f[a] -$ “ ”.

$*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”, $*p^h a - (\sim *p^h -)$ “ ”;
 $()$ ” , $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”, $*p^h a - (\sim *p^h -)$ “ ”;
 $*f[a] -$ “ ”, $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”, $*p^h a - (\sim *p^h -)$ “ ”;
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” - 1,00: ‘ / ; $*f[a] -$ “ ”;
 $*f[a] -$ “ ” / ‘ ; $*f[a] -$ “ ” / ‘ ;
 $*f[a] -$ “ ” > ‘ / ;
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” - 1,00: ‘ ; $*p^h \acute{e}$ h-ur-
 $[*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” > ‘ / ;
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” - 0,60: ‘ / ;
 $*f[a] -$ “ , ” / ‘ ; $*f[a] -$ “ ” /
 $*f[a] -$ “ ” > ‘ ,
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”.

$*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”, $*p^h a - (\sim *p^h -)$ “ , , ; , ”
 $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ”, $*p^h a - (\sim *p^h -)$ “ , , ; , ”

$*f[a] -$ “ , , ; , ” $*p^h a - (\sim *p^h -)$ “ , , ; , ”
 $()$ ” - 0,15, (3,00): 1)
 $*f -$ *p; 2) *0; 3) * - * , /
 $(1,00):$ ‘ / ‘ , / ‘ , /
 $*p^h$ h-wór- “ ” / ‘ ; $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-],
 $*p^h a - (\sim *p^h -)$ “ ”, $*p^h a - (\sim *p^h -)$ “ ” - 0,26,
 $(2,00): 1)$ * - * , /
 $(1,00):$ ‘ , * - * , /

$*f[a] -$ “ , , ; , ” $*p^h \acute{e}$ h-ur- [$*p^h \acute{a}$ h-ur-], $*p^h$ h-wór- “ ” - 0,36,
 $*f -$ *p^h; 2) * - * , /
 $* -$ * , / ‘ (0,60):

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