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Interior and exterior sign relations

In the nothing there is nothing to look for, unless we decide to enter this nothing and to build there a world according to the laws of negativity. God has not yet created this world, and there is no construction plan for it, before our thinking has not described it in a negative language.

Gotthard Günther (1976-80, vol. 3, pp. 287 s.)

1. In Toth (2008b), we have shown that the basic or „unmarked“ sign class has semiotic interiority in all three triadic positions, and its basic or „unmarked“ reality thematic has semiotic exteriority in all three trichotomic positions:

$$\begin{aligned} \text{SCI(Trd)} &:= [[\text{INT}, -], [\text{INT}, -], [\text{INT}, -]] \\ \text{SCI(Trch)} &:= [[-, \text{EXT}], [-, \text{EXT}], [-, \text{EXT}]] \end{aligned}$$

Since „unmarked“ sign classes and reality theatics thus have the following sign structure

$$\begin{aligned} \text{SCI} &:= [[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]] \\ \text{RTh} &:= [[\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]], \end{aligned}$$

sign classes that do not show the above structures, must at least contain one negative prime sign. From Toth (2008a), it also follows, that sign classes whose general parametric structure

$$\text{SCI} = [[\pm S, \pm O], [\pm S, \pm O], [\pm S, \pm O]]$$

does not obey the law of semiotic homogeneity, which requires the same algebraic sign either for all triadic and or all trichotomic prime-signs, and thus either

$$\begin{aligned} &[[+S, +O], [+S, +O], [+S, +O]] \text{ or} \\ &[[-S, -O], [-S, -O], [-S, -O]] \text{ or} \\ &[[-S, +O], [-S, +O], [-S, -O]] \text{ or} \\ &[[+S, -O], [+S, -O], [+S, -O]], \end{aligned}$$

lie in more than one semiotic contexture.

However, since semiotic exteriority and interiority were defined as follows

$$\begin{aligned} \text{EXT} &:= \{-S, +O\} \\ \text{INT} &:= \{+S, -O\}, \end{aligned}$$

EXT and INT are „portemanteau“ categories, which are furthermore chiastic in respect to the distribution of the parametric categories $\pm S$ and $\pm O$. Therefore, if we define sign classes by the categories of exteriority and interiority or subject and object, the reality theatics whose mapping to the sign classes is bijective in the numerical notation, become ambiguous

and from the standpoint of graph theory „polysemic“ (cf. Tanenbaum 1999). Thus, from the virwpoint of semiotics, the exteriority/interiority structures of reality thematics may also represent the exteriority/interiority structure of other sign classes and/or their transpositions.

2. First, we will deal with parametric sign classes that lie in 1 contexture:

$\text{SCI}(3.1 \ 2.1 \ 1.3)$	$\text{RTTh}(3.1 \ 1.2 \ 1.3)$
$[[+S, +O], [+S, +O], [+S, +O]]$	$[[+O, +S], [+O, +S], [+O, +S]]$
$[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$

Yet, $[[\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class

$(-3.-1 \ -2.-1 \ -1.-3)$

and its further five transpositions

$(-3.-1 \ -1.-3 \ -2.-1)$
 $(-2.-1 \ -3.-1 \ -1.-3)$
 $(-2.-1 \ -1.-3 \ -3.-1)$
 $(-1.-3 \ -3.-1 \ -2.-1)$
 $(-1.-3 \ -2.-1 \ -3.-1)$

It is clear that the transpositions of a sign class have the same exteriority/interiority structure like the sign class to which they belong only in the case that they are triadically homogeneous. Thus, in this case the semiotic **law of homogeneity** is restriced to **triadic** prime-signs. Why it does not apply to **trichotomically** homogeneous prime-signs, we will show in the next two sign classes.

However, it is interesting that the meontic sign class $(-3.-1 \ -2.-1 \ -1.-3)$, or generally $(-3.a \ -2.b \ -1.c)$, shares the exteriority/interiority structure with the semiotic sign class $(3.1 \ 2.1 \ 1.3)$, or generally $(3.a \ 2.b \ 1.c)$. This seems to be a strong hint towards the polycontextural structure of semiotics, cf. Toth (2008a).

$\text{SCI} (-3.1 \ -2.1 \ -1.3)$	$\text{RTTh}(3.-1 \ 1.-2 \ 1.-3)$
$[[\text{-S}, +O], [\text{-S}, +O], [\text{-S}, +O]]$	$[[\text{-S}, +O], [\text{-S}, +O], [\text{-S}, +O]]$
$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$
$\text{SCI} (3.-1 \ 2.-1 \ 1.-3)$	$\text{RTTh}(-3.1 \ -1.2 \ -1.3)$
$[[+S, -O], [+S, -O], [+S, -O]]$	$[[+S, -O], [+S, -O], [+S, -O]]$
$[[\text{INT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{INT}]]$

When we dualize the sign class $(-3.1 \ -2.1 \ -1.3)$, we get the reality thematic $(3.-1 \ 1.-2 \ 1.-3)$ that has the same parametric set structure like the sign class $(3.-1 \ 2.-1 \ 1.-3)$. In turn, if we dualize the latter, we obtain the reality thematic $(-3.1 \ -1.2 \ -1.3)$ that shares its parametric set structure with the sign class $(-3.1 \ -2.1 \ -1.3)$. Thus, in the numerical notation, the two sign classes and the two reality thematics stand in a chiastic relation to one another, and this

means that the reality thematic of the “logic” sign class (-3.1 -2.1 -1.3) is “magic”, and the reality thematic of the “magic” sign class (3.-1 2.-1 1.-3) is “logic”. However, from the standpoint of the exteriority/interiority structure, both sign classes and their reality thematic are not chiastic, but “linear”, and both representation systems behave to one another like a proposition and its negation. Hence, this asymmetry between the numerical notation of a sign class or reality thematic and their exteriority/interiority structure is the deepest reason for the semiotic polysemy of their respective graphs that occurs mostly in sign classes and reality theatics that lie in 2 or 3 semiotic contexts.

3. We shall now have a look at sign classes and reality theatics that lie in 2 or 3 contexts.

$\text{SCI}(3.1 \ 2.1 \ 1.-3)$

$[[+S, +O], [+S, +O], [+S, -O]]$
 $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$

$\text{RTTh}(-3.1 \ 1.2 \ 1.3)$

$[[-O, +S], [+O, +S], [+O, +S]]$
 $[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$ shares its exteriority/interiority structure with the sign class (3.-1 -2.-1 -1.-3) whose reality thematic is (-3.-1 -1.-2 -1.-3), which thus has in turn the same exteriority/interiority structure like (3.1 2.1 1.-3). Further, we see that $\text{SCI}(3.1 \ 2.1 \ 1.-3)$ is triadically, but not trichotomically homogeneous. Therefore, its exteriority/interiority structure $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$ is not shared by any of the transpositions of this sign class:

(3.1 1.-3 2.1) $[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$

(2.1 3.1 1.-3) $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$

(2.1 1.-3 3.1) $[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$

(1.-3 3.1 2.1) $[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]]$

(1.-3 2.1 3.1) $[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]]$

$\text{SCI} (3.1 \ 2.1 \ -1.3)$

$[[+S, +O], [+S, +O], [-S, +O]]$
 $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$

$\text{RTTh}(-3.1 \ 1.2 \ 1.3)$

$[[-S, +O], [+S, +O], [+S, +O]]$
 $[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$

$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$ shares its exteriority/interiority structure with the sign class (-3.1 -2.-1 -1.-3). Moreover, $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the transpositions (3.-1 2.-1 -1.-3) and (2.-1 3.-1 -1.-3) of the sign class (3.-1 2.-1 -1.-3) and of the transpositions (2.-1 1.-3 -3.1) and (1.-3 2.-1 -3.1) of the sign class (-3.1 2.-1 1.-3), etc. In this case, we recognize that the exteriority/interiority structure of a sign class stands in cross-relation with transpositions of more than one sign class, or more precisely: with more than one parametric variation of the same sign class. In doing so, the exteriority/interiority structure is mostly polysemic in regard to crossings of semiotic contexture borders of different kinds.

$\text{SCI}(3.1 \ 2.1 \ -1.-3)$

$[[+S, +O], [+S, +O], [-S, -O]]$
 $[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$\text{RTTh}(-3.-1 \ 1.2 \ 1.3)$

$[[-O, -S], [+O, +S], [+O, +S]]$
 $[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.1 -2.1 -1.-3) and of various transpositions.

$\text{SCL}(3.1 \ 2.-1 \ 1.3)$ [[+S, +O], [+S, -O], [+S, +O]] [[INT, EXT], [INT, INT], [INT, EXT]]	$\text{RTh}(3.1 -1.2 \ 1.3)$ [[+O, +S], [-O, +S], [+O, +S]] [[EXT, INT], [INT, INT], [EXT, INT]]
[[EXT, INT], [INT, INT], [EXT, INT]] is also the exteriority/interiority structure of the sign class (-3.-1 2.-1 -1.-3) and of various transpositions.	
$\text{SCL}(3.1 -2.1 \ 1.3)$ [[+S, +O], [-S, +O], [+S, +O]] [[INT, EXT], [EXT, EXT], [INT, EXT]]	$\text{RTh}(3.1 1.-2 \ 1.3)$ [[+O, +S], [+O, -S], [+O, +S]] [[EXT, INT], [EXT, EXT], [EXT, INT]]
[[EXT, INT], [EXT, EXT], [EXT, INT]] is also the exteriority/interiority structure of the sign class (-3.-1 -2.1 -1.-3) and of various transpositions.	
$\text{SCL}(3.1 -2.-1 \ 1.3)$ [[+S, +O], [-S, -O], [+S, +O]] [[INT, EXT], [EXT, INT], [INT, EXT]]	$\text{RTh}(3.1 -1.-2 \ 1.3)$ [[+O, +S], [-O, -S], [+O, +S]] [[EXT, INT], [INT, EXT], [EXT, INT]]
[[EXT, INT], [INT, EXT], [EXT, INT]] is also the exteriority/interiority structure of the sign class (-3.-1 2.1 -1.-3) and of various transpositions.	
$\text{SCL}(3.-1 \ 2.1 \ 1.3)$ [[+S, -O], [+S, +O], [+S, +O]] [[INT, INT], [INT, EXT], [INT, EXT]]	$\text{RTh}(3.1 \ 1.2 -1.3)$ [[+O, +S], [+O, +S], [-O, +S]] [[EXT, INT], [EXT, INT], [INT, INT]]
[[EXT, INT], [EXT, INT], [INT, INT]] is also the exteriority/interiority structure of the sign class (-3.-1 -2.-1 1.-3) and of various transpositions.	
$\text{SCL}(-3.1 \ 2.1 \ 1.3)$ [[-, +O], [+S, +O], [+S, +O]] [[EXT, EXT], [INT, EXT], [INT, EXT]]	$\text{RTh}(3.1 \ 1.2 \ 1.-3)$ [[+O, +S], [+O, +S], [+O, -S]] [[EXT, INT], [EXT, INT], [EXT, EXT]]
[[EXT, INT], [EXT, INT], [EXT, EXT]] is also the exteriority/interiority structure of the sign class (-3.-1 -2.-1 -1.3) and of various transpositions.	
$\text{SCL}(-3.-1 \ 2.1 \ 1.3)$ [[-, -O], [+S, +O], [+S, +O]] [[EXT, INT], [INT, EXT], [INT, EXT]]	$\text{RTh}(3.1 \ 1.2 -1.-3)$ [[+O, +S], [+O, +S], [-O, -S]] [[EXT, INT], [EXT, INT], [INT, EXT]]
[[EXT, INT], [EXT, INT], [INT, EXT]] is also the exteriority/interiority structure of the sign class (-3.-1 -2.-1 1.3) and of various transpositions.	
$\text{SCL}(3.1 \ 2.-1 \ 1.-3)$ [[+S, +O], [+S, -O], [+S, -O]] [[INT, EXT], [INT, INT], [INT, INT]]	$\text{RTh}(-3.1 -1.2 \ 1.3)$ [[-, +S], [-O, +S], [+O, +S]] [[INT, INT], [INT, INT], [EXT, INT]]

$[[\text{INT}, \text{INT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 2.-1 -1.3) and of various transpositions.

$\text{SCI}(3.1 -2.1 -1.3)$	$\text{RTTh}(3.-1 1.-2 1.3)$
$[[+S, +O], [-S, +O], [-S, +O]]$	$[[+O, -S], [+O, -S], [+O, +S]]$
$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 -2.1 -1.-3) and of various transpositions.

$\text{SCI}(3.1 -2.-1 -1.-3)$	$\text{RTTh}(-3.-1 -1.-2 1.3)$
$[[+S, +O], [-S, -O], [-S, -O]]$	$[[+O, -S], [-O, -S], [+O, +S]]$
$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.1 2.1 -1.-3) and of various transpositions.

$\text{SCI}(3.-1 2.-1 1.3)$	$\text{RTTh}(3.1 -1.2 -1.3)$
$[[+S, -O], [+S, -O], [+S, +O]]$	$[[+O, +S], [-O, +S], [-O, +S]]$
$[[\text{INT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{INT}]]$

$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 2.-1 1.-3) and of various transpositions.

$\text{SCI}(-3.1 -2.1 1.3)$	$\text{RTTh}(3.1 1.-2 1.-3)$
$[[+S, +O], [-S, +O], [-S, +O]]$	$[[+O, +S], [+O, -S], [+O, -S]]$
$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$

$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 -2.1 1.3) and of various transpositions.

$\text{SCI}(-3.-1 -2.-1 1.3)$	$\text{RTTh}(3.1 -1.-2 -1.-3)$
$[[+S, -O], [-S, -O], [+S, +O]]$	$[[+O, +S], [-O, -S], [-O, -S]]$
$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]]$

$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 2.1 1.3) and of various transposition.

$\text{SCI}(3.-1 2.1 1.-3)$	$\text{RTTh}(-3.1 1.2 -1.3)$
$[[+S, -O], [+S, +O], [+S, -O]]$	$[[+O, +S], [+O, +S], [-O, +S]]$
$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$

$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 -2.-1 1.-3) and of various transpositions.

$\text{SCI}(-3.1 \ 2.1 \ -1.3)$	$\text{RTh}(3.-1 \ 1.2 \ 1.-3)$
$[[\text{-S}, +\text{O}], [\text{+S}, +\text{O}], [\text{-S}, +\text{O}]]$	$[[+\text{O}, -\text{S}], [\text{+O}, +\text{S}], [\text{+O}, -\text{S}]]$
$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$

$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 -2.-1 -1.3) and of various transpositions.

$\text{SCI}(-3.-1 \ 2.1 \ -1.-3)$	$\text{RTh}(-3.-1 \ 1.2 \ -1.-3)$
$[[\text{-S}, -\text{O}], [\text{+S}, +\text{O}], [\text{-S}, -\text{O}]]$	$[[-\text{O}, -\text{S}], [\text{+O}, +\text{S}], [-\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.1 -2.-1 1..3) and of various transpositions.

$\text{SCI}(3.1 \ -2.1 \ -1.-3)$	$\text{RTh}(-3.-1 \ 1.-2 \ 1.3)$
$[[\text{+S}, +\text{O}], [\text{-S}, +\text{O}], [\text{-S}, -\text{O}]]$	$[[-\text{O}, -\text{S}], [\text{+O}, -\text{S}], [\text{+O}, +\text{S}]]$
$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$ is exclusively the exteriority/interiority structure of the sign class (3.1 -2.1 -1.-3) and of no other transpositions.

$\text{SCI}(3.1 \ -2.-1 \ -1.3)$	$\text{RTh}(3.-1 \ -1.-2 \ 1.3)$
$[[\text{+S}, +\text{O}], [\text{-S}, -\text{O}], [\text{-S}, +\text{O}]]$	$[[+\text{O}, -\text{S}], [-\text{O}, -\text{S}], [\text{+O}, +\text{S}]]$
$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 2.1 -1.-3) and of various transpositions.

$\text{SCI}(-3.1 \ -2.-1 \ 1.3)$	$\text{RTh}(3.1 \ -1.-2 \ 1.-3)$
$[[\text{-S}, +\text{O}], [\text{-S}, -\text{O}], [\text{+S}, +\text{O}]]$	$[[+\text{O}, +\text{S}], [-\text{O}, -\text{S}], [\text{+O}, -\text{S}]]$
$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$

$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 2.1 -1.3) and of various transpositions.

$\text{SCI}(-3.-1 \ -2.1 \ 1.3)$	$\text{RTh}(3.1 \ 1.-2 \ -1.-3)$
$[[\text{-S}, -\text{O}], [\text{-S}, +\text{O}], [\text{+S}, +\text{O}]]$	$[[+\text{O}, +\text{S}], [\text{+O}, -\text{S}], [-\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$

$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$ is exclusively the exteriority/interiority structure of the sign class (-3.-1 -2.1 1..3) and of no other transpositions.

$\text{SCI}(-3.1 \ 2.1 \ -1.-3)$	$\text{RTh}(-3.-1 \ 1.2 \ 1.-3)$
$[[\text{-S}, +\text{O}], [\text{+S}, +\text{O}], [\text{-S}, -\text{O}]]$	$[[-\text{O}, -\text{S}], [\text{+O}, +\text{S}], [\text{+O}, -\text{S}]]$
$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.1 -2.-1 -1.3) and of various transpositions.

$\text{SCl}(-3.-1\ 2.1\ -1.3)$	$\text{RTh}(3.-1\ 1.2\ -1.-3)$
$[-\text{S}, -\text{O}], [\text{+S}, +\text{O}], [-\text{S}, +\text{O}]$	$[\text{+O}, -\text{S}], [\text{+O}, +\text{S}], [-\text{O}, -\text{S}]$
$[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]$	$[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]$

$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 -2.-1 1.3) and of various transpositions.

$\text{S}\text{Cl}(3.1 - 2.1 1.-3)$ $\{[+\text{S}, +\text{O}], [-\text{S}, +\text{O}], [+ \text{S}, -\text{O}]\}$ $\{[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}]\}$	$\text{R}\text{Th}(-3.1 1.-2 1.3)$ $\{[-\text{O}, +\text{S}], [+ \text{O}, -\text{S}], [+ \text{O}, +\text{S}]\}$ $\{[\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]\}$
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$[[INT, INT], [EXT, EXT], [EXT, INT]]$ is also the exteriority/interiority structure of the sign class (3.-1 -2.1 -1.-3) and of various transpositions.

$\text{SCI}(3.1\ 2.-1\ -1.3)$	$\text{RTh}(3.-1\ -1.2\ 1.3)$
$[[+S,\ +O],\ [+S,\ -O],\ [-S,\ +O]]$	$[[+O,\ -S],\ [-O,\ +S],\ [+O,\ +S]]$
$[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}]$	$[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]$

$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 2.-1 -1.-3) and of various transpositions.

$\text{S}\text{Cl}(-3.1\ 2.-1\ 1.3)$ [[-, +O], [+S, -O], [+S, +O]] [[EXT, EXT], [INT, INT], [INT, EXT]]	$\text{R}\text{Th}(3.1\ -1.2\ 1.-3)$ [[+O, +S], [-O, +S], [+O, -S]] [[EXT, INT], [INT, INT], [EXT, EXT]]
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$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 2.-1 -1.3) and of various transpositions.

$\text{SCI}(3.-1\ -2.1\ 1.3)$	$\text{RTh}(3.1\ 1.-2\ -1.3)$
$[[+S,\ -O],\ [-S,\ +O],\ [+S,\ +O]]$	$[[+O,\ +S],\ [+O,\ -S],\ [-O,\ +S]]$
$[[\text{INT},\ \text{INT}],\ [\text{EXT},\ \text{EXT}],\ [\text{INT},\ \text{EXT}]]$	$[[\text{EXT},\ \text{INT}],\ [\text{EXT},\ \text{EXT}],\ [\text{INT},\ \text{INT}]]$

$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 -2.1 1.-3) and of various transpositions.

$\text{S}\text{Cl}(-3.1\ 2.1\ 1.-3)$	$\text{R}\text{Th}(-3.1\ 1.2\ 1.-3)$
$[-\text{S}, +\text{O}], [+ \text{S}, +\text{O}], [+ \text{S}, -\text{O}]$	$[-\text{O}, +\text{S}], [+ \text{O}, +\text{S}], [+ \text{O}, -\text{S}]$
$[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]$	$[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]$

$[[INT, INT], [EXT, INT], [EXT, EXT]]$ is also the exteriority/interiority structure of the sign class (3.-1 2.-1 -1.3) and of various transpositions.

$\text{SCl}(3.-1\ 2.1\ -1.3)$ $\{[+S, -O], [+S, +O], [-S, +O]\}$ $\{[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]\}$	$\text{RTh}(3.-1\ 1.2\ -1.3)$ $\{[+O, -S], [+O, +S], [-O, +S]\}$ $\{[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]\}$
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$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 -2.-1 1.-3) and of various transpositions.

$\text{SCL}(-3.1 -2.-1 1.-3)$	$\text{RTh}(-3.1 -1.-2 1.-3)$
$[[\text{-S}, +\text{O}], [\text{-S}, -\text{O}], [+\text{S}, -\text{O}]]$	$[[\text{-O}, +\text{S}], [\text{-O}, -\text{S}], [+\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$

$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 2.1 -1.3) and of various transpositions.

$\text{SCL}(-3.1 2.-1 -1.-3)$	$\text{RTh}(-3.-1 -1.2 1.-3)$
$[[\text{-S}, +\text{O}], [+\text{S}, -\text{O}], [\text{-S}, -\text{O}]]$	$[[\text{-O}, -\text{S}], [\text{-O}, +\text{S}], [+\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}]]$

$[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.1 2.-1 -1.3) and of various transpositions.

$\text{SCL}(-3.-1 2.-1 -1.3)$	$\text{RTh}(3.-1 -1.2 -1.-3)$
$[[\text{-S}, -\text{O}], [+\text{S}, -\text{O}], [\text{-S}, +\text{O}]]$	$[[+\text{O}, -\text{S}], [\text{-O}, +\text{S}], [-\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$

$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 2.-1 1.3) and of various transpositions.

$\text{SCL}(3.-1 -2.-1 -1.3)$	$\text{RTh}(3.-1 -1.-2 -1.3)$
$[[+\text{S}, -\text{O}], [\text{-S}, -\text{O}], [\text{-S}, +\text{O}]]$	$[[+\text{O}, -\text{S}], [\text{-O}, -\text{S}], [-\text{O}, +\text{S}]]$
$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}]]$	$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$

$[[\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.1 2.1 1.-3) and of various transpositions.

$\text{SCL}(-3.-1 -2.1 1.-3)$	$\text{RTh}(-3.1 1.-2 -1.-3)$
$[[\text{-S}, -\text{O}], [\text{-S}, +\text{O}], [+\text{S}, -\text{O}]]$	$[[\text{-O}, +\text{S}], [+\text{O}, -\text{S}], [-\text{O}, -\text{S}]]$
$[[\text{EXT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$

$[[\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 -2.1 1.3) and of various transpositions.

$\text{SCL}(3.-1 -2.1 -1.-3)$	$\text{RTh}(-3.-1 1.-2 -1.3)$
$[[+\text{S}, -\text{O}], [\text{-S}, +\text{O}], [-\text{S}, -\text{O}]]$	$[[\text{-O}, -\text{S}], [+\text{O}, -\text{S}], [-\text{O}, +\text{S}]]$
$[[\text{INT}, \text{INT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.1 -2.1 1.-3) and of various transpositions.

$\text{SCL}(3.1 -2.-1 1.-3)$	$\text{RTh}(-3.1 -1.-2 1.3)$
$[[+\text{S}, +\text{O}], [\text{-S}, -\text{O}], [+\text{S}, -\text{O}]]$	$[[\text{-O}, +\text{S}], [\text{-O}, -\text{S}], [+\text{O}, +\text{S}]]$
$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 2.1 -1.-3) and of various transpositions.

$\text{SCI}(3.1 \ 2.-1 \ -1.-3)$	$\text{RTTh}(-3.-1 \ -1.2 \ 1.3)$
$[[+S, +O], [+S, -O], [-S, -O]]$	$[[-O, -S], [-O, +S], [+O, +S]]$
$[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{INT}, \text{INT}], [\text{EXT}, \text{INT}]]$ is exclusively the exteriority/interiority structure of the sign class (3.1 2.-1 -1.-3) and of no other transpositions.

$\text{SCI}(-3.-1 \ 2.-1 \ 1.3)$	$\text{RTTh}(3.1 \ -1.2 \ -1.-3)$
$[[-S, -O], [+S, -O], [+S, +O]]$	$[[+O, +S], [-O, +S], [-O, -S]]$
$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$

$[[\text{EXT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{EXT}]]$ is exclusively the exteriority/interiority structure of the sign class (-3.-1 2.-1 1.3) and of no other transpositions.

$\text{SCI}(3.-1 \ -2.-1 \ 1.3)$	$\text{RTTh}(3.1 \ -1.-2 \ -1.-3)$
$[[+S, -O], [-S, -O], [+S, +O]]$	$[[+O, +S], [-O, -S], [-O, +S]]$
$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$	$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$

$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (-3.-1 2.1 1.-3) and of various transpositions.

$\text{SCI}(-3.-1 \ 2.1 \ 1.-3)$	$\text{RTTh}(-3.1 \ 1.2 \ -1.-3)$
$[[-S, -O], [+S, +O], [+S, -O]]$	$[[-O, +S], [+O, +S], [-O, -S]]$
$[[\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{INT}, \text{INT}]]$	$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$

$[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{EXT}]]$ is also the exteriority/interiority structure of the sign class (3.-1 -2.-1 1.3) and of various transpositions.

$\text{SCI}(3.-1 \ 2.1 \ -1.-3)$	$\text{RTTh}(-3.-1 \ 1.2 \ -1.-3)$
$[[+S, -O], [+S, +O], [-S, -O]]$	$[[-O, -S], [+O, +S], [-O, +S]]$
$[[\text{INT}, \text{INT}], [\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}]]$	$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$

$[[\text{INT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{INT}, \text{INT}]]$ is also the exteriority/interiority structure of the sign class (3.1 -2.-1 1.-3) and of various transposition.

4. Now, we are able to combine the 46 parametric reality thematics and their “affine” sign classes to polysemic sets.

1. $[[\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]] = \{(3.1 \ 1.2 \ 1.3), (-3.-1 \ -2.-1 \ -1.-3)\}$
2. $[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}], [\text{EXT}, \text{EXT}]] = \{(-3.1 \ -2.1 \ -1.3)\}$
3. $[[\text{INT}, \text{INT}], [\text{INT}, \text{INT}], [\text{INT}, \text{INT}]] = \{(-3.-1 \ 2.-1 \ 1.-3)\}$
4. $[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]] = \{(-3.1 \ 1.2 \ 1.3), (3.-1 \ -2.-1 \ -1.-3)\}$
5. $[[\text{INT}, \text{INT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]] = \{(-3.1 \ 1.2 \ 1.-3), (3.-1 \ -2.-1 \ -1.-3)\}$
6. $[[\text{EXT}, \text{EXT}], [\text{EXT}, \text{INT}], [\text{EXT}, \text{INT}]] = \{(3.-1 \ 1.2 \ 1.3), (-3.1 \ -2.-1 \ -1.-3)\}$

7. [[INT, EXT], [EXT, INT], [EXT, INT]] = {(-3.-1 1.2 1.3), (3.1 -2.1 -1.3)}
8. [[EXT, INT], [INT, INT], [EXT, INT]] = {(3.1 -1.2 1.3), (-3.-1 2.-1 -1.-3)}
9. [[EXT, INT], [EXT, EXT], [EXT, INT]] = {(3.1 1.-2 1.3), (-3.-1 -2.1 -1.-3)}
10. [[EXT, INT], [INT, EXT], [EXT, INT]] = {(3.1 -1.-2 1.3), (-3.-1 2.1 -1.-3)}
11. [[EXT, INT], [EXT, INT], [INT, INT]] = {(3.1 1.2 -1.3), (-3.-1 -2.-1 1.-3)}
12. [[EXT, INT], [EXT, INT], [EXT, EXT]] = {(3.1 1.2 1.-3), (-3.-1 -2.-1 -1.3)}
13. [[EXT, INT], [EXT, INT], [INT, EXT]] = {(3.1 1.2 -1.-3), (-3.-1 -2.-1 1.3)}
14. [[INT, INT], [INT, INT], [EXT, INT]] = {(-3.1 -1.2 1.3), (3.-1 2.-1 -1.3)}
15. [[EXT, EXT], [EXT, EXT], [EXT, INT]] = {(3.-1 1.-2 1.3), (-3.1 -2.1 -1.-3)}
16. [[INT, EXT], [INT, EXT], [EXT, INT]] = {(-3.-1 -1.-2 1.3), (3.1 2.1 -1.-3)}
17. [[EXT, INT], [INT, INT], [INT, INT]] = {(3.1 -1.2 -1.3), (-3.-1 2.-1 1.-3)}
18. [[EXT, INT], [EXT, EXT], [EXT, EXT]] = {(3.1 1.-2 1.-3), (-3.-1 -2.1 1.3)}
19. [[EXT, INT], [INT, EXT], [INT, EXT]] = {(3.1 -1.-2 -1.-3), (-3.-1 2.1 1.3)}
20. [[INT, INT], [EXT, INT], [INT, INT]] = {(-3.1 1.2 -1.3), (3.-1 -2.-1 1.-3)}
21. [[EXT, EXT], [EXT, INT], [EXT, EXT]] = {(3.-1 1.2 1.-3), (-3.1 -2.-1 -1.3)}
22. [[INT, EXT], [EXT, INT], [INT, EXT]] = {(-3.-1 1.2 -1.-3), (3.1 -2.-1 1.3)}
23. [[INT, EXT], [EXT, EXT], [EXT, INT]] = {(-3.-1 1.-2 1.3), (3.1 -2.1 -1.-3)}
24. [[EXT, EXT], [INT, EXT], [EXT, INT]] = {(3.-1 -1.-2 1.3), (-3.1 2.1 -1.-3)}
25. [[EXT, INT], [INT, EXT], [EXT, EXT]] = {(3.1 -1.-2 1.-3), (-3.-1 2.1 -1.3)}
26. [[EXT, INT], [EXT, EXT], [INT, EXT]] = {(3.1 1.-2 -1.-3), (-3.-1 -2.1 1.3)}
27. [[INT, EXT], [EXT, INT], [EXT, EXT]] = {(-3.-1 1.2 1.-3), (3.1 -2.-1 -1.3)}
28. [[EXT, EXT], [EXT, INT], [INT, EXT]] = {(3.-1 1.2 -1.-3), (-3.1 -2.-1 1.3)}
29. [[INT, INT], [EXT, EXT], [EXT, INT]] = {(-3.1 1.-2 1.3), (3.-1 -2.1 -1.-3)}
30. [[EXT, EXT], [INT, INT], [EXT, INT]] = {(3.-1 -1.2 1.3), (-3.1 2.-1 -1.-3)}
31. [[EXT, INT], [INT, INT], [EXT, EXT]] = {(3.1 -1.2 1.-3), (-3.-1 2.-1 -1.3)}
32. [[EXT, INT], [EXT, EXT], [INT, INT]] = {(3.1 1.-2 -1.-3), (-3.-1 -2.1 1.-3)}
33. [[INT, INT], [EXT, INT], [EXT, EXT]] = {(-3.1 1.2 1.-3), (3.-1 -2.-1 -1.3)}
34. [[EXT, EXT], [EXT, INT], [INT, INT]] = {(3.-1 1.2 -1.-3), (-3.1 -2.-1 1.-3)}
35. [[INT, INT], [INT, EXT], [EXT, EXT]] = {(-3.-1 -1.-2 1.-3), (3.-1 2.1 -1.3)}
36. [[INT, EXT], [INT, INT], [EXT, EXT]] = {(-3.-1 -1.2 1.-3), (3.1 2.-1 -1.3)}
37. [[EXT, EXT], [INT, INT], [INT, EXT]] = {(3.-1 -1.2 -1.-3), (-3.1 2.-1 1.3)}
38. [[EXT, EXT], [INT, EXT], [INT, INT]] = {(3.-1 -1.-2 -1.-3), (-3.1 2.1 1.-3)}
39. [[INT, INT], [EXT, EXT], [INT, EXT]] = {(-3.1 1.-2 -1.-3), (3.-1 -2.1 1.3)}
40. [[INT, EXT], [EXT, EXT], [INT, INT]] = {(-3.-1 1.-2 -1.-3), (3.1 -2.1 1.-3)}
41. [[INT, INT], [INT, EXT], [EXT, INT]] = {(-3.1 -1.-2 1.3), (3.-1 2.1 -1.-3)}
42. [[INT, EXT], [INT, INT], [EXT, INT]] = {(-3.-1 -1.2 1.3), (3.1 2.-1 -1.-3)}
43. [[EXT, INT], [INT, INT], [INT, EXT]] = {(3.1 -1.2 -1.-3), (-3.-1 2.-1 1.3)}
44. [[EXT, INT], [INT, EXT], [INT, INT]] = {(3.1 -1.-2 -1.-3), (-3.-1 2.1 1.-3)}
45. [[INT, INT], [EXT, INT], [INT, EXT]] = {(-3.1 1.2 -1.-3), (3.-1 -2.-1 1.3)}
46. [[INT, EXT], [EXT, INT], [INT, INT]] = {(-3.-1 1.2 -1.3), (3.1 -2.-1 1.-3)}

We recognize that to all reality thematics besides nos. 2 and 3 there can be assigned a set of two polysemic sign sets one of which is a reality thematic and one is another sign class each. Since nos. 2 and 3 differ from the other 44 exteriority/interiority structures in being homogeneous, we also recognize that homogeneous exteriority/interiority structures appear only in the two sign classes (-3.1 -2.1 -1.3) and (3.-1 2.-1 1.-3) which lie both in one semiotic contexture. Furthermore, one recognizes easily that in each polysemic sign set the sign class

stands in a bijective exchange relation to the respective reality thematic, insofar as $(\neg a.b) \leftrightarrow (a.\neg b)$ and $(a.b) \leftrightarrow (\neg a.\neg b)$, as one can check easily.

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