

### 3. The maximal 3-adic 4-contextural semiotic system

A fully developed 3-adic 4-contextural semiotic system comprises

1. 10 sign classes, provided that the semiotic inclusion order ( $a \leq b \leq c$ ) holds for the abstract sign class (3.a 2.b 1.c);
2. 10 dual reality thematics of the form (c.1 b.2 a.3);
3. Indices for each of the 3 sub-signs of each sign class and reality thematic indicating to which contexture(s) the sub-sign belongs;
4. 6 permutations for every sign class and every reality thematic.

In this chapter, we show the complete maximal 3-adic 4-contextural semiotic system based on the 10 Peircean monocontextural sign classes. Starting with the fact that 3-adic 4-contextural sign classes can lie maximally in 3 contextures per sub-sign, we set  $(i, j, k) \in \{1, 2, 3, 4\}$  as the maximal abstract set of indices, although in 3-adic 4-contextural sign classes only the genuine sub-signs, i.e. the identitive morphisms and heteromorphisms, lie in 3 contextures none of which is the empty contexture  $\emptyset$ . We further recognize that, considering all possible combinations of the indices  $(i, j, k)$  per sign class, every sign class appears in  $6 \cdot 126 = 756$  permutations. Thus, for all 10 sign classes, we get  $7560$  permutations, and if we add the  $7560$  permutations of the reality thematics, we obtain the astonishing amount of  $15120$  semiotic structures for a sign model class which operates only with 3 fundamental categories and 4 contextures.

#### 1<sup>st</sup> permutation of sign classes

(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>ijk</sub> )		
(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>ikj</sub> )	(3.a <sub>ijk</sub> 2.b <sub>ikj</sub> 1.c <sub>ikj</sub> )	
(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>jik</sub> )	(3.a <sub>ijk</sub> 2.b <sub>ikj</sub> 1.c <sub>jik</sub> )	(3.a <sub>ijk</sub> 2.b <sub>jik</sub> 1.c <sub>jik</sub> )
(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>jki</sub> )	(3.a <sub>ijk</sub> 2.b <sub>ikj</sub> 1.c <sub>jki</sub> )	(3.a <sub>ijk</sub> 2.b <sub>jik</sub> 1.c <sub>jki</sub> )
(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>kij</sub> )	(3.a <sub>ijk</sub> 2.b <sub>ikj</sub> 1.c <sub>kij</sub> )	(3.a <sub>ijk</sub> 2.b <sub>jik</sub> 1.c <sub>kij</sub> )
(3.a <sub>ijk</sub> 2.b <sub>ijk</sub> 1.c <sub>kji</sub> )	(3.a <sub>ijk</sub> 2.b <sub>ikj</sub> 1.c <sub>kji</sub> )	(3.a <sub>ijk</sub> 2.b <sub>jik</sub> 1.c <sub>kji</sub> )
(3.a <sub>ijk</sub> 2.b <sub>jki</sub> 1.c <sub>jki</sub> )		
(3.a <sub>ijk</sub> 2.b <sub>jki</sub> 1.c <sub>kij</sub> )	(3.a <sub>ijk</sub> 2.b <sub>kij</sub> 1.c <sub>kij</sub> )	
(3.a <sub>ijk</sub> 2.b <sub>jki</sub> 1.c <sub>kji</sub> )	(3.a <sub>ijk</sub> 2.b <sub>kij</sub> 1.c <sub>kji</sub> )	(3.a <sub>ijk</sub> 2.b <sub>kji</sub> 1.c <sub>kji</sub> )



$$\begin{array}{l}
(3.a_{kij} \ 2.b_{jki} \ 1.c_{jki}) \\
(3.a_{kij} \ 2.b_{jki} \ 1.c_{kij}) \\
(3.a_{kij} \ 2.b_{jki} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(3.a_{kij} \ 2.b_{kij} \ 1.c_{kij}) \\
(3.a_{kij} \ 2.b_{kij} \ 1.c_{kji})
\end{array}
\quad
(3.a_{kij} \ 2.b_{kji} \ 1.c_{kji})$$

$$\begin{array}{l}
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{ijk}) \\
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{ikj}) \\
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{jik}) \\
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{jki}) \\
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{kij}) \\
(3.a_{kji} \ 2.b_{ijk} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(3.a_{kji} \ 2.b_{ikj} \ 1.c_{ikj}) \\
(3.a_{kji} \ 2.b_{ikj} \ 1.c_{jik}) \\
(3.a_{kji} \ 2.b_{ikj} \ 1.c_{jki}) \\
(3.a_{kji} \ 2.b_{ikj} \ 1.c_{kij}) \\
(3.a_{kji} \ 2.b_{ikj} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(3.a_{kji} \ 2.b_{jik} \ 1.c_{jik}) \\
(3.a_{kji} \ 2.b_{jik} \ 1.c_{jki}) \\
(3.a_{kji} \ 2.b_{jik} \ 1.c_{kij}) \\
(3.a_{kji} \ 2.b_{jik} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{l}
(3.a_{kji} \ 2.b_{jki} \ 1.c_{jki}) \\
(3.a_{kji} \ 2.b_{jki} \ 1.c_{kij}) \\
(3.a_{kji} \ 2.b_{jki} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(3.a_{kji} \ 2.b_{kij} \ 1.c_{kij}) \\
(3.a_{kji} \ 2.b_{kij} \ 1.c_{kji})
\end{array}
\quad
(3.a_{kji} \ 2.b_{kji} \ 1.c_{kji})$$

## 2<sup>nd</sup> permutation of sign classes

$$\begin{array}{l}
(3.a_{ijk} \ 1.c_{ijk} \ 2.b_{ijk}) \\
(3.a_{ijk} \ 1.c_{ikj} \ 2.b_{ijk}) \\
(3.a_{ijk} \ 1.c_{jik} \ 2.b_{ijk}) \\
(3.a_{ijk} \ 1.c_{jki} \ 2.b_{ijk}) \\
(3.a_{ijk} \ 1.c_{kij} \ 2.b_{ijk}) \\
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{ijk})
\end{array}
\quad
\begin{array}{l}
(3.a_{ijk} \ 1.c_{ikj} \ 2.b_{ikj}) \\
(3.a_{ijk} \ 1.c_{jik} \ 2.b_{ikj}) \\
(3.a_{ijk} \ 1.c_{jki} \ 2.b_{ikj}) \\
(3.a_{ijk} \ 1.c_{kij} \ 2.b_{ikj}) \\
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{ikj})
\end{array}
\quad
\begin{array}{l}
(3.a_{ijk} \ 1.c_{jik} \ 2.b_{jik}) \\
(3.a_{ijk} \ 1.c_{jki} \ 2.b_{jik}) \\
(3.a_{ijk} \ 1.c_{kij} \ 2.b_{jik}) \\
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{jik})
\end{array}$$

$$\begin{array}{l}
(3.a_{ijk} \ 1.c_{jki} \ 2.b_{jki}) \\
(3.a_{ijk} \ 1.c_{kij} \ 2.b_{jki}) \\
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{jki})
\end{array}
\quad
\begin{array}{l}
(3.a_{ijk} \ 1.c_{kij} \ 2.b_{kij}) \\
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{kij})
\end{array}
\quad
(3.a_{ijk} \ 1.c_{kji} \ 2.b_{kji})$$

$$\begin{array}{l}
(3.a_{ikj} \ 1.c_{ijk} \ 2.b_{ijk}) \\
(3.a_{ikj} \ 1.c_{ikj} \ 2.b_{ijk}) \\
(3.a_{ikj} \ 1.c_{jik} \ 2.b_{ijk}) \\
(3.a_{ikj} \ 1.c_{jki} \ 2.b_{ijk}) \\
(3.a_{ikj} \ 1.c_{kij} \ 2.b_{ijk}) \\
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{ijk})
\end{array}
\quad
\begin{array}{l}
(3.a_{ikj} \ 1.c_{ikj} \ 2.b_{ikj}) \\
(3.a_{ikj} \ 1.c_{jik} \ 2.b_{ikj}) \\
(3.a_{ikj} \ 1.c_{jki} \ 2.b_{ikj}) \\
(3.a_{ikj} \ 1.c_{kij} \ 2.b_{ikj}) \\
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{ikj})
\end{array}
\quad
\begin{array}{l}
(3.a_{ikj} \ 1.c_{jik} \ 2.b_{jik}) \\
(3.a_{ikj} \ 1.c_{jki} \ 2.b_{jik}) \\
(3.a_{ikj} \ 1.c_{kij} \ 2.b_{jik}) \\
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{jik})
\end{array}$$

$$\begin{array}{l}
(3.a_{ikj} \ 1.c_{jki} \ 2.b_{jki}) \\
(3.a_{ikj} \ 1.c_{kij} \ 2.b_{jki}) \\
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{jki})
\end{array}
\quad
\begin{array}{l}
(3.a_{ikj} \ 1.c_{kij} \ 2.b_{kij}) \\
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{kij})
\end{array}
\quad
(3.a_{ikj} \ 1.c_{kji} \ 2.b_{kji})$$



$$\begin{array}{l}
(3.a_{kji} \ 1.c_{jki} \ 2.b_{jki}) \\
(3.a_{kji} \ 1.c_{kij} \ 2.b_{kij}) \\
(3.a_{kji} \ 1.c_{kji} \ 2.b_{kji})
\end{array}
\quad
\begin{array}{l}
(3.a_{kji} \ 1.c_{kij} \ 2.b_{kij}) \\
(3.a_{kji} \ 1.c_{kji} \ 2.b_{kji})
\end{array}
\quad
(3.a_{kji} \ 1.c_{kji} \ 2.b_{kji})$$

### 3<sup>rd</sup> permutation of sign classes

$$\begin{array}{l}
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{ijk}) \\
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{ikj}) \\
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{ijk} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{ikj} \ 3.a_{ijk} \ 1.c_{ikj}) \\
(2.b_{ikj} \ 3.a_{ijk} \ 1.c_{jik}) \\
(2.b_{ikj} \ 3.a_{ijk} \ 1.c_{jki}) \\
(2.b_{ikj} \ 3.a_{ijk} \ 1.c_{kij}) \\
(2.b_{ikj} \ 3.a_{ijk} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{jik} \ 3.a_{ijk} \ 1.c_{jik}) \\
(2.b_{jik} \ 3.a_{ijk} \ 1.c_{jki}) \\
(2.b_{jik} \ 3.a_{ijk} \ 1.c_{kij}) \\
(2.b_{jik} \ 3.a_{ijk} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{l}
(2.b_{jki} \ 3.a_{ijk} \ 1.c_{jki}) \\
(2.b_{jki} \ 3.a_{ijk} \ 1.c_{kij}) \\
(2.b_{jki} \ 3.a_{ijk} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{kij} \ 3.a_{ijk} \ 1.c_{kij}) \\
(2.b_{kij} \ 3.a_{ijk} \ 1.c_{kji})
\end{array}
\quad
(2.b_{kji} \ 3.a_{ijk} \ 1.c_{kji})$$

$$\begin{array}{l}
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{ijk}) \\
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{ikj}) \\
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{ikj} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{ikj} \ 3.a_{ikj} \ 1.c_{ikj}) \\
(2.b_{ikj} \ 3.a_{ikj} \ 1.c_{jik}) \\
(2.b_{ikj} \ 3.a_{ikj} \ 1.c_{jki}) \\
(2.b_{ikj} \ 3.a_{ikj} \ 1.c_{kij}) \\
(2.b_{ikj} \ 3.a_{ikj} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{jik} \ 3.a_{ikj} \ 1.c_{jik}) \\
(2.b_{jik} \ 3.a_{ikj} \ 1.c_{jki}) \\
(2.b_{jik} \ 3.a_{ikj} \ 1.c_{kij}) \\
(2.b_{jik} \ 3.a_{ikj} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{l}
(2.b_{jki} \ 3.a_{ikj} \ 1.c_{jki}) \\
(2.b_{jki} \ 3.a_{ikj} \ 1.c_{kij}) \\
(2.b_{jki} \ 3.a_{ikj} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{kij} \ 3.a_{ikj} \ 1.c_{kij}) \\
(2.b_{kij} \ 3.a_{ikj} \ 1.c_{kji})
\end{array}
\quad
(2.b_{kji} \ 3.a_{ikj} \ 1.c_{kji})$$

$$\begin{array}{l}
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{ijk}) \\
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{ikj}) \\
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{jik} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{ikj} \ 3.a_{jik} \ 1.c_{ikj}) \\
(2.b_{ikj} \ 3.a_{jik} \ 1.c_{jik}) \\
(2.b_{ikj} \ 3.a_{jik} \ 1.c_{jki}) \\
(2.b_{ikj} \ 3.a_{jik} \ 1.c_{kij}) \\
(2.b_{ikj} \ 3.a_{jik} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{jik} \ 3.a_{jik} \ 1.c_{jik}) \\
(2.b_{jik} \ 3.a_{jik} \ 1.c_{jki}) \\
(2.b_{jik} \ 3.a_{jik} \ 1.c_{kij}) \\
(2.b_{jik} \ 3.a_{jik} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{l}
(2.b_{jki} \ 3.a_{jik} \ 1.c_{jki}) \\
(2.b_{jki} \ 3.a_{jik} \ 1.c_{kij}) \\
(2.b_{jki} \ 3.a_{jik} \ 1.c_{kji})
\end{array}
\quad
\begin{array}{l}
(2.b_{kij} \ 3.a_{jik} \ 1.c_{kij}) \\
(2.b_{kij} \ 3.a_{jik} \ 1.c_{kji})
\end{array}
\quad
(2.b_{kji} \ 3.a_{jik} \ 1.c_{kji})$$

$$\begin{array}{lll}
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{ijk}) & & \\
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{ikj}) & (2.b_{ikj} \ 3.a_{jki} \ 1.c_{ikj}) & \\
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{jik}) & (2.b_{ikj} \ 3.a_{jki} \ 1.c_{jik}) & (2.b_{jik} \ 3.a_{jki} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{jki}) & (2.b_{ikj} \ 3.a_{jki} \ 1.c_{jki}) & (2.b_{jik} \ 3.a_{jki} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{kij}) & (2.b_{ikj} \ 3.a_{jki} \ 1.c_{kij}) & (2.b_{jik} \ 3.a_{jki} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{jki} \ 1.c_{kji}) & (2.b_{ikj} \ 3.a_{jki} \ 1.c_{kji}) & (2.b_{kji} \ 3.a_{jki} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{lll}
(2.b_{jki} \ 3.a_{jki} \ 1.c_{jki}) & & \\
(2.b_{jki} \ 3.a_{jki} \ 1.c_{kij}) & (2.b_{kij} \ 3.a_{jki} \ 1.c_{kij}) & \\
(2.b_{jki} \ 3.a_{jki} \ 1.c_{kji}) & (2.b_{kij} \ 3.a_{jki} \ 1.c_{kji}) & (2.b_{kji} \ 3.a_{jki} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{lll}
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{ijk}) & & \\
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{ikj}) & (2.b_{ikj} \ 3.a_{kij} \ 1.c_{ikj}) & \\
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{jik}) & (2.b_{ikj} \ 3.a_{kij} \ 1.c_{jik}) & (2.b_{jik} \ 3.a_{kij} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{jki}) & (2.b_{ikj} \ 3.a_{kij} \ 1.c_{jki}) & (2.b_{jik} \ 3.a_{kij} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{kij}) & (2.b_{ikj} \ 3.a_{kij} \ 1.c_{kij}) & (2.b_{jik} \ 3.a_{kij} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{kij} \ 1.c_{kji}) & (2.b_{ikj} \ 3.a_{kij} \ 1.c_{kji}) & (2.b_{jik} \ 3.a_{kij} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{lll}
(2.b_{jki} \ 3.a_{kij} \ 1.c_{jki}) & & \\
(2.b_{jki} \ 3.a_{kij} \ 1.c_{kij}) & (2.b_{kij} \ 3.a_{kij} \ 1.c_{kij}) & \\
(2.b_{jki} \ 3.a_{kij} \ 1.c_{kji}) & (2.b_{kij} \ 3.a_{kij} \ 1.c_{kji}) & (2.b_{kji} \ 3.a_{kij} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{lll}
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{ijk}) & & \\
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{ikj}) & (2.b_{ikj} \ 3.a_{kji} \ 1.c_{ikj}) & \\
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{jik}) & (2.b_{ikj} \ 3.a_{kji} \ 1.c_{jik}) & (2.b_{jik} \ 3.a_{kji} \ 1.c_{jik}) \\
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{jki}) & (2.b_{ikj} \ 3.a_{kji} \ 1.c_{jki}) & (2.b_{jik} \ 3.a_{kji} \ 1.c_{jki}) \\
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{kij}) & (2.b_{ikj} \ 3.a_{kji} \ 1.c_{kij}) & (2.b_{jik} \ 3.a_{kji} \ 1.c_{kij}) \\
(2.b_{ijk} \ 3.a_{kji} \ 1.c_{kji}) & (2.b_{ikj} \ 3.a_{kji} \ 1.c_{kji}) & (2.b_{jik} \ 3.a_{kji} \ 1.c_{kji})
\end{array}$$

$$\begin{array}{lll}
(2.b_{jki} \ 3.a_{kji} \ 1.c_{jki}) & & \\
(2.b_{jki} \ 3.a_{kji} \ 1.c_{kij}) & (2.b_{kij} \ 3.a_{kji} \ 1.c_{kij}) & \\
(2.b_{jki} \ 3.a_{kji} \ 1.c_{kji}) & (2.b_{kij} \ 3.a_{kji} \ 1.c_{kji}) & (2.b_{kji} \ 3.a_{kji} \ 1.c_{kji})
\end{array}$$

#### 4<sup>th</sup> permutation of sign classes

$$\begin{array}{lll}
(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{ijk}) & & \\
(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{ijk}) & (2.b_{ikj} \ 1.c_{ikj} \ 3.a_{ijk}) & \\
(2.b_{ijk} \ 1.c_{jik} \ 3.a_{ijk}) & (2.b_{ikj} \ 1.c_{jik} \ 3.a_{ijk}) & (2.b_{jik} \ 1.c_{ji} \ 3.a_{ijk} \ k) \\
(2.b_{ijk} \ 1.c_{jki} \ 3.a_{ijk}) & (2.b_{ikj} \ 1.c_{jki} \ 3.a_{ijk}) & (2.b_{jik} \ 1.c_{jki} \ 3.a_{ijk}) \\
(2.b_{ijk} \ 1.c_{kij} \ 3.a_{ijk}) & (2.b_{ikj} \ 1.c_{kij} \ 3.a_{ijk}) & (2.b_{jik} \ 1.c_{kij} \ 3.a_{ijk}) \\
(2.b_{ijk} \ 1.c_{kji} \ 3.a_{ijk}) & (2.b_{ikj} \ 1.c_{kji} \ 3.a_{ijk}) & (2.b_{jik} \ 1.c_{kji} \ 3.a_{ijk})
\end{array}$$

$(2.b_{jki} \ 1.c_{jki} \ 3.a_{ijk})$   
 $(2.b_{jki} \ 1.c_{kij} \ 3.a_{ijk})$      $(2.b_{kij} \ 1.c_{kij} \ 3.a_{ijk})$   
 $(2.b_{jki} \ 1.c_{kji} \ 3.a_{ijk})$      $(2.b_{kij} \ 1.c_{kji} \ 3.a_{ijk})$      $(2.b_{kji} \ 1.c_{kji} \ 3.a_{ijk})$

$(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{ikj})$   
 $(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{ikj})$      $(2.b_{ikj} \ 1.c_{ikj} \ 3.a_{ikj})$   
 $(2.b_{ijk} \ 1.c_{jik} \ 3.a_{ikj})$      $(2.b_{ikj} \ 1.c_{jik} \ 3.a_{ikj})$      $(2.b_{jik} \ 1.c_{jik} \ 3.a_{ikj})$   
 $(2.b_{ijk} \ 1.c_{jki} \ 3.a_{ikj})$      $(2.b_{ikj} \ 1.c_{jki} \ 3.a_{ikj})$      $(2.b_{jik} \ 1.c_{jki} \ 3.a_{ikj})$   
 $(2.b_{ijk} \ 1.c_{kij} \ 3.a_{ikj})$      $(2.b_{ikj} \ 1.c_{kij} \ 3.a_{ikj})$      $(2.b_{jik} \ 1.c_{kij} \ 3.a_{ikj})$   
 $(2.b_{ijk} \ 1.c \ 3.a_{ikj} \ kji)$      $(2.b_{ikj} \ 1.c_{kji} \ 3.a_{ikj})$      $(2.b_{jik} \ 1.c_{kji} \ 3.a_{ikj})$

$(2.b_{jki} \ 1.c_{jki} \ 3.a_{ikj})$   
 $(2.b_{jki} \ 1.c_{kij} \ 3.a_{ikj})$      $(2.b_{kij} \ 1.c_{kij} \ 3.a_{ikj})$   
 $(2.b_{jki} \ 1.c_{kji} \ 3.a_{ikj})$      $(2.b_{kij} \ 1.c_{kji} \ 3.a_{ikj})$      $(2.b_{kji} \ 1.c_{kji} \ 3.a_{ikj})$

$(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{jik})$   
 $(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{jik})$      $(2.b_{ikj} \ 1.c_{ikj} \ 3.a_{jik})$   
 $(2.b_{ijk} \ 1.c_{jik} \ 3.a_{jik})$      $(2.b_{ikj} \ 1.c_{jik} \ 3.a_{jik})$      $(2.b_{jik} \ 1.c_{jik} \ 3.a_{jik})$   
 $(2.b_{ijk} \ 1.c \ 3.a_{jik} \ jki)$      $(2.b_{ikj} \ 1.c_{jki} \ 3.a_{jik})$      $(2.b_{jik} \ 1.c_j \ 3.a_{jik} \ ki)$   
 $(2.b_{ijk} \ 1.c \ 3.a_{jik} \ kij)$      $(2.b_{ikj} \ 1.c \ 3.a_{jik} \ kij)$      $(2.b_{jik} \ 1.c_{ki} \ 3.a_{jik} \ j)$   
 $(2.b_{ijk} \ 1.c \ 3.a_{jik} \ kji)$      $(2.b_{ikj} \ 1.c_{kji} \ 3.a_{jik})$      $(2.b_{jik} \ 1.c_{kji} \ 3.a_{jik})$

$(2.b_{jki} \ 1.c_{jki} \ 3.a_{jik})$   
 $(2.b_{jki} \ 1.c_{kij} \ 3.a_{jik})$      $(2.b_{kij} \ 1.c_{kij} \ 3.a_{jik})$   
 $(2.b_{jki} \ 1.c_{kji} \ 3.a_{jik})$      $(2.b_{kij} \ 1.c_{kji} \ 3.a_{jik})$      $(2.b_{kji} \ 1.c_{kji} \ 3.a_{jik})$

$(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{jki})$   
 $(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{jki})$      $(2.b_{ikj} \ 1.c_{ikj} \ 3.a_{jki})$   
 $(2.b_{ijk} \ 1.c_{jik} \ 3.a_{jki})$      $(2.b_{ikj} \ 1.c_{jik} \ 3.a_{jki})$      $(2.b_{jik} \ 1.c_{jik} \ 3.a_{jki})$   
 $(2.b_{ijk} \ 1.c_{jki} \ 3.a_{jki})$      $(2.b_{ikj} \ 1.c_{jki} \ 3.a_{jki})$      $(2.b_{jik} \ 1.c_{jki} \ 3.a_{jki})$   
 $(2.b_{ijk} \ 1.c_{kij} \ 3.a_{jki})$      $(2.b_{ikj} \ 1.c_{kij} \ 3.a_{jki})$      $(2.b_{jik} \ 1.c_{kij} \ 3.a_{jki})$   
 $(2.b_{ijk} \ 1.c_{kji} \ 3.a_{jki})$      $(2.b_{ikj} \ 1.c_{kji} \ 3.a_{jki})$      $(2.b_{jik} \ 1.c_{kji} \ 3.a_{jki})$

$(2.b_{jki} \ 1.c_{jki} \ 3.a_{jki})$   
 $(2.b_{jki} \ 1.c_{kij} \ 3.a_{jki})$      $(2.b_{kij} \ 1.c_{kij} \ 3.a_{jki})$   
 $(2.b_{jki} \ 1.c_{kji} \ 3.a_{jki})$      $(2.b_{kij} \ 1.c_{kji} \ 3.a_{jki})$      $(2.b_{kji} \ 1.c_{kji} \ 3.a_{jki})$

$(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{kij})$   
 $(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{kij})$      $(2.b_{ikj} \ 1.c_{ikj} \ 3.a_{kij})$   
 $(2.b_{ijk} \ 1.c_{jik} \ 3.a_{kij})$      $(2.b_{ikj} \ 1.c_{jik} \ 3.a_{kij})$      $(2.b_{jik} \ 1.c_{jik} \ 3.a_{kij})$   
 $(2.b_{ijk} \ 1.c_{jki} \ 3.a_{kij})$      $(2.b_{ikj} \ 1.c_{jki} \ 3.a_{kij})$      $(2.b_{jik} \ 1.c_{jki} \ 3.a_{kij})$

$(2.b_{ijk} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{kij} \ 3.a_{kji})$
$(2.b_{ijk} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{kji} \ 3.a_{kji})$
$(2.b_{jki} \ 1.c_{jki} \ 3.a_{kji})$		
$(2.b_{jki} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{kij} \ 1.c_{kij} \ 3.a_{kji})$	
$(2.b_{jki} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{kij} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{kji} \ 1.c_{kji} \ 3.a_{kji})$
$(2.b_{ijk} \ 1.c_{ijk} \ 3.a_{kji})$		
$(2.b_{ijk} \ 1.c_{ikj} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{ikj} \ 3.a_{kji})$	
$(2.b_{ijk} \ 1.c_{jik} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{jik} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{jik} \ 3.a_{kji})$
$(2.b_{ijk} \ 1.c_{jki} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{jki} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{jki} \ 3.a_{kji})$
$(2.b_{ijk} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{kij} \ 3.a_{kji})$
$(2.b_{ijk} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{ikj} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{jik} \ 1.c_{kji} \ 3.a_{kji})$
$(2.b_{jki} \ 1.c_{jki} \ 3.a_{kji})$		
$(2.b_{jki} \ 1.c_{kij} \ 3.a_{kji})$	$(2.b_{kij} \ 1.c_{kij} \ 3.a_{kji})$	
$(2.b_{jki} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{kij} \ 1.c_{kji} \ 3.a_{kji})$	$(2.b_{kji} \ 1.c_{kji} \ 3.a_{kji})$

### 5<sup>th</sup> permutation of sign classes

$(1.c_{ijk} \ 3.a_{ijk} \ 2.b_{ijk})$		
$(1.c_{ikj} \ 3.a_{ijk} \ 2.b_{ijk})$	$(1.c_{ikj} \ 3.a_{ijk} \ 2.b_{ikj})$	
$(1.c_{jik} \ 3.a_{ijk} \ 2.b_{ijk})$	$(1.c_{jik} \ 3.a_{ijk} \ 2.b_{ikj})$	$(1.c_{jik} \ 3.a_{ijk} \ 2.b_{jik})$
$(1.c_{jki} \ 3.a_{ijk} \ 2.b_{ijk})$	$(1.c_{jki} \ 3.a_{ijk} \ 2.b_{ikj})$	$(1.c_{jki} \ 3.a_{ijk} \ 2.b_{jik})$
$(1.c_{kij} \ 3.a_{ijk} \ 2.b_{ijk})$	$(1.c_{kij} \ 3.a_{ijk} \ 2.b_{ikj})$	$(1.c_{kij} \ 3.a_{ijk} \ 2.b_{jik})$
$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{ijk})$	$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{ikj})$	$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{jik})$
$(1.c_{jki} \ 3.a_{ijk} \ 2.b_{jki})$		
$(1.c_{kij} \ 3.a_{ijk} \ 2.b_{jki})$	$(1.c_{kij} \ 3.a_{ijk} \ 2.b_{kij})$	
$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{jki})$	$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{kij})$	$(1.c_{kji} \ 3.a_{ijk} \ 2.b_{kji})$
$(1.c_{ijk} \ 3.a_{ikj} \ 2.b_{ijk})$		
$(1.c_{ikj} \ 3.a_{ikj} \ 2.b_{ijk})$	$(1.c_{ikj} \ 3.a_{ikj} \ 2.b_{ikj})$	
$(1.c_{jik} \ 3.a_{ikj} \ 2.b_{ijk})$	$(1.c_{jik} \ 3.a_{ikj} \ 2.b_{ikj})$	$(1.c_{jik} \ 3.a_{ikj} \ 2.b_{jik})$
$(1.c_{jki} \ 3.a_{ikj} \ 2.b_{ijk})$	$(1.c_{jki} \ 3.a_{ikj} \ 2.b_{ikj})$	$(1.c_{jki} \ 3.a_{ikj} \ 2.b_{jik})$
$(1.c_{kij} \ 3.a_{ikj} \ 2.b_{ijk})$	$(1.c_{kij} \ 3.a_{ikj} \ 2.b_{ikj})$	$(1.c_{kij} \ 3.a_{ikj} \ 2.b_{jik})$
$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{ijk})$	$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{ikj})$	$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{jik})$
$(1.c_{jki} \ 3.a_{ikj} \ 2.b_{jki})$		
$(1.c_{kij} \ 3.a_{ikj} \ 2.b_{jki})$	$(1.c_{kij} \ 3.a_{ikj} \ 2.b_{kij})$	
$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{jki})$	$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{kij})$	$(1.c_{kji} \ 3.a_{ikj} \ 2.b_{kji})$



(1.c <sub>ijk</sub> 3.a <sub>jik</sub> 2.b <sub>ijk</sub> )		
(1.c <sub>ikj</sub> 3.a <sub>jik</sub> 2.b <sub>ijk</sub> )	(1.c <sub>ikj</sub> 3.a <sub>jik</sub> 2.b <sub>ikj</sub> )	
(1.c <sub>jik</sub> 3.a <sub>jik</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jik</sub> 3.a <sub>jik</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jik</sub> 3.a <sub>jik</sub> 2.b <sub>jik</sub> )
(1.c <sub>jki</sub> 3.a <sub>jik</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jki</sub> 3.a <sub>jik</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jki</sub> 3.a <sub>jik</sub> 2.b <sub>jik</sub> )
(1.c <sub>kij</sub> 3.a <sub>jik</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kij</sub> 3.a <sub>jik</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kij</sub> 3.a <sub>jik</sub> 2.b <sub>jik</sub> )
(2.b <sub>ijk</sub> 3.a <sub>jik</sub> 1.c <sub>kji</sub> )	(2.b <sub>ikj</sub> 3.a <sub>jik</sub> 1.c <sub>kji</sub> )	(1.c <sub>kji</sub> 3.a <sub>jik</sub> 2.b <sub>jik</sub> )

(1.c <sub>jki</sub> 3.a <sub>jik</sub> 2.b <sub>jki</sub> )		
(1.c <sub>kij</sub> 3.a <sub>jik</sub> 2.b <sub>jki</sub> )	(1.c <sub>kij</sub> 3.a <sub>jik</sub> 2.b <sub>kij</sub> )	
(1.c <sub>kji</sub> 3.a <sub>jik</sub> 2.b <sub>jki</sub> )	(1.c <sub>kji</sub> 3.a <sub>jik</sub> 2.b <sub>kij</sub> )	(1.c <sub>kji</sub> 3.a <sub>jik</sub> 2.b <sub>kji</sub> )

(1.c <sub>ijk</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )		
(1.c <sub>ikj</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )	(1.c <sub>ikj</sub> 3.a <sub>jki</sub> 2.b <sub>ikj</sub> )	
(1.c <sub>jik</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jik</sub> 3.a <sub>jki</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jik</sub> 3.a <sub>jki</sub> 2.b <sub>jik</sub> )
(1.c <sub>jki</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jki</sub> 3.a <sub>jki</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jki</sub> 3.a <sub>jki</sub> 2.b <sub>jik</sub> )
(1.c <sub>kij</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kij</sub> 3.a <sub>jki</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kij</sub> 3.a <sub>jki</sub> 2.b <sub>jik</sub> )
(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>jik</sub> )

(1.c <sub>jki</sub> 3.a <sub>jki</sub> 2.b <sub>jki</sub> )		
(1.c <sub>kij</sub> 3.a <sub>jki</sub> 2.b <sub>jki</sub> )	(1.c <sub>kij</sub> 3.a <sub>jki</sub> 2.b <sub>kij</sub> )	
(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>jki</sub> )	(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>kij</sub> )	(1.c <sub>kji</sub> 3.a <sub>jki</sub> 2.b <sub>kji</sub> )

(1.c <sub>ijk</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )		
(1.c <sub>ikj</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )	(1.c <sub>ikj</sub> 3.a <sub>kij</sub> 2.b <sub>ikj</sub> )	
(1.c <sub>jik</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jik</sub> 3.a <sub>kij</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jik</sub> 3.a <sub>kij</sub> 2.b <sub>jik</sub> )
(1.c <sub>jki</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jki</sub> 3.a <sub>kij</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jki</sub> 3.a <sub>kij</sub> 2.b <sub>jik</sub> )
(1.c <sub>kij</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kij</sub> 3.a <sub>kij</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kij</sub> 3.a <sub>kij</sub> 2.b <sub>jik</sub> )
(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>jik</sub> )

(1.c <sub>jki</sub> 3.a <sub>kij</sub> 2.b <sub>jki</sub> )		
(1.c <sub>kij</sub> 3.a <sub>kij</sub> 2.b <sub>jki</sub> )	(1.c <sub>kij</sub> 3.a <sub>kij</sub> 2.b <sub>kij</sub> )	
(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>jki</sub> )	(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>kij</sub> )	(1.c <sub>kji</sub> 3.a <sub>kij</sub> 2.b <sub>kji</sub> )

(1.c <sub>ijk</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )		
(1.c <sub>ikj</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )	(1.c <sub>ikj</sub> 3.a <sub>kji</sub> 2.b <sub>ikj</sub> )	
(1.c <sub>jik</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jik</sub> 3.a <sub>kji</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jik</sub> 3.a <sub>kji</sub> 2.b <sub>jik</sub> )
(1.c <sub>jki</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )	(1.c <sub>jki</sub> 3.a <sub>kji</sub> 2.b <sub>ikj</sub> )	(1.c <sub>jki</sub> 3.a <sub>kji</sub> 2.b <sub>jik</sub> )
(1.c <sub>kij</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kij</sub> 3.a <sub>kji</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kij</sub> 3.a <sub>kji</sub> 2.b <sub>jik</sub> )
(1.c <sub>kji</sub> 3.a <sub>kji</sub> 2.b <sub>ijk</sub> )	(1.c <sub>kji</sub> 3.a <sub>kji</sub> 2.b <sub>ikj</sub> )	(1.c <sub>kji</sub> 3.a <sub>kji</sub> 2.b <sub>jik</sub> )

$$\begin{array}{l}
(1.c_{jki} \ 3.a_{kji} \ 2.b_{jki}) \\
(1.c_{kij} \ 3.a_{kji} \ 2.b_{kij}) \quad (1.c_{kij} \ 3.a_{kji} \ 2.b_{kij}) \\
(1.c_{kji} \ 3.a_{kji} \ 2.b_{jki}) \quad (1.c_{kji} \ 3.a_{kji} \ 2.b_{kij}) \quad (1.c_{kji} \ 3.a_{kji} \ 2.b_{kji})
\end{array}$$

### 6<sup>th</sup> permutation of sign classes

$$\begin{array}{l}
(1.c_{ijk} \ 2.b_{ijk} \ 3.a_{ijk}) \\
(1.c_{ikj} \ 2.b_{ijk} \ 3.a_{ijk}) \quad (1.c_{ikj} \ 2.b_{ikj} \ 3.a_{ijk}) \\
(1.c_{jik} \ 2.b_{ijk} \ 3.a_{ijk}) \quad (1.c_{jik} \ 2.b_{ikj} \ 3.a_{ijk}) \quad (1.c_{jik} \ 2.b_{jik} \ 3.a_{ijk}) \\
(1.c_{jki} \ 2.b_{ijk} \ 3.a_{ijk}) \quad (1.c_{jki} \ 2.b_{ikj} \ 3.a_{ijk}) \quad (1.c_{jki} \ 2.b_{jik} \ 3.a_{ijk}) \\
(1.c_{kij} \ 2.b_{ijk} \ 3.a_{ijk}) \quad (1.c_{kij} \ 2.b_{ikj} \ 3.a_{ijk}) \quad (1.c_{kij} \ 2.b_{jik} \ 3.a_{ijk}) \\
(1.c_{kji} \ 2.b_{ijk} \ 3.a_{ijk}) \quad (1.c_{kji} \ 2.b_{ikj} \ 3.a_{ijk}) \quad (1.c_{kji} \ 2.b_{jik} \ 3.a_{ijk})
\end{array}$$

$$\begin{array}{l}
(1.c_{jki} \ 2.b_{jki} \ 3.a_{ijk}) \\
(1.c_{kij} \ 2.b_{jki} \ 3.a_{ijk}) \quad (1.c_{kij} \ 2.b_{kij} \ 3.a_{ijk}) \\
(1.c_{kji} \ 2.b_{jki} \ 3.a_{ijk}) \quad (1.c_{kji} \ 2.b_{kij} \ 3.a_{ijk}) \quad (1.c_{kji} \ 2.b_{kji} \ 3.a_{ijk})
\end{array}$$

$$\begin{array}{l}
(1.c_{ijk} \ 2.b_{ijk} \ 3.a_{ikj}) \\
(1.c_{ikj} \ 2.b_{ijk} \ 3.a_{ikj}) \quad (1.c_{ikj} \ 2.b_{ikj} \ 3.a_{ikj}) \\
(1.c_{jik} \ 2.b_{ijk} \ 3.a_{ikj}) \quad (1.c_{jik} \ 2.b_{ikj} \ 3.a_{ikj}) \quad (1.c_{jik} \ 2.b_{jik} \ 3.a_{ikj}) \\
(1.c_{jki} \ 2.b_{ijk} \ 3.a_{ikj}) \quad (1.c_{jki} \ 2.b_{ikj} \ 3.a_{ikj}) \quad (1.c_{jki} \ 2.b_{jik} \ 3.a_{ikj}) \\
(1.c_{kij} \ 2.b_{ijk} \ 3.a_{ikj}) \quad (1.c_{kij} \ 2.b_{ikj} \ 3.a_{ikj}) \quad (1.c_{kij} \ 2.b_{jik} \ 3.a_{ikj}) \\
(1.c_{kji} \ 2.b_{ijk} \ 3.a_{ikj}) \quad (1.c_{kji} \ 2.b_{ikj} \ 3.a_{ikj}) \quad (1.c_{kji} \ 2.b_{jik} \ 3.a_{ikj})
\end{array}$$

$$\begin{array}{l}
(1.c_{jki} \ 2.b_{jki} \ 3.a_{ikj}) \\
(1.c_{kij} \ 2.b_{jki} \ 3.a_{ikj}) \quad (1.c_{kij} \ 2.b_{kij} \ 3.a_{ikj}) \\
(1.c_{kji} \ 2.b_{jki} \ 3.a_{ikj}) \quad (1.c_{kji} \ 2.b_{kij} \ 3.a_{ikj}) \quad (1.c_{kji} \ 2.b_{kji} \ 3.a_{ikj})
\end{array}$$

$$\begin{array}{l}
(1.c_{ijk} \ 2.b_{ijk} \ 3.a_{jik}) \\
(1.c_{ikj} \ 2.b_{ijk} \ 3.a_{jik}) \quad (1.c_{ikj} \ 2.b_{ikj} \ 3.a_{jik}) \\
(1.c_{jik} \ 2.b_{ijk} \ 3.a_{jik}) \quad (1.c_{jik} \ 2.b_{ikj} \ 3.a_{jik}) \quad (1.c_{jik} \ 2.b_{jik} \ 3.a_{jik}) \\
(1.c \ 2.b_{ijk} \ 3.a_{jik} \ jki) \quad (1.c_{jki} \ 2.b_{ikj} \ 3.a_{jik}) \quad (1.c_j \ 2.b_{jik} \ 3.a_{jik} \ ki) \\
(1.c \ 2.b_{ijk} \ 3.a_{jik} \ kij) \quad (1.c \ 2.b_{ikj} \ 3.a_{jik} \ kij) \quad (1.c_{ki} \ 2.b_{jik} \ 3.a_{jik} \ j) \\
(2.b_{ijk} \ 1.c \ 3.a_{jik} \ kji) \quad (2.b_{ikj} \ 1.c_{kji} \ 3.a_{jik}) \quad (1.c_{kji} \ 2.b_{jik} \ 3.a_{jik})
\end{array}$$

$$\begin{array}{l}
(1.c_{jki} \ 2.b_{jki} \ 3.a_{jik}) \\
(1.c_{kij} \ 2.b_{jki} \ 3.a_{jik}) \quad (1.c_{kij} \ 2.b_{kij} \ 3.a_{jik}) \\
(1.c_{kji} \ 2.b_{jki} \ 3.a_{jik}) \quad (1.c_{kji} \ 2.b_{kij} \ 3.a_{jik}) \quad (1.c_{kji} \ 2.b_{kji} \ 3.a_{jik})
\end{array}$$

(1.c <sub>ijk</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )		
(1.c <sub>ikj</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )	(1.c <sub>ikj</sub> 2.b <sub>ikj</sub> 3.a <sub>jki</sub> )	
(1.c <sub>jik</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )	(1.c <sub>jik</sub> 2.b <sub>ikj</sub> 3.a <sub>jki</sub> )	(1.c <sub>jik</sub> 2.b <sub>jik</sub> 3.a <sub>jki</sub> )
(1.c <sub>jki</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )	(1.c <sub>jki</sub> 2.b <sub>ikj</sub> 3.a <sub>jki</sub> )	(1.c <sub>jki</sub> 2.b <sub>jik</sub> 3.a <sub>jki</sub> )
(1.c <sub>kij</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )	(1.c <sub>kij</sub> 2.b <sub>ikj</sub> 3.a <sub>jki</sub> )	(1.c <sub>kij</sub> 2.b <sub>jik</sub> 3.a <sub>jki</sub> )
(1.c <sub>kji</sub> 2.b <sub>ijk</sub> 3.a <sub>jki</sub> )	(1.c <sub>kji</sub> 2.b <sub>ikj</sub> 3.a <sub>jki</sub> )	(1.c <sub>kji</sub> 2.b <sub>jik</sub> 3.a <sub>jki</sub> )

(1.c <sub>jki</sub> 2.b <sub>jki</sub> 3.a <sub>jki</sub> )		
(1.c <sub>kij</sub> 2.b <sub>jki</sub> 3.a <sub>jki</sub> )	(1.c <sub>kij</sub> 2.b <sub>kij</sub> 3.a <sub>jki</sub> )	
(1.c <sub>kji</sub> 2.b <sub>jki</sub> 3.a <sub>jki</sub> )	(1.c <sub>kji</sub> 2.b <sub>kij</sub> 3.a <sub>jki</sub> )	(1.c <sub>kji</sub> 2.b <sub>kji</sub> 3.a <sub>jki</sub> )

(1.c <sub>ijk</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )		
(1.c <sub>ikj</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )	(1.c <sub>ikj</sub> 2.b <sub>ikj</sub> 3.a <sub>kij</sub> )	
(1.c <sub>jik</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )	(1.c <sub>jik</sub> 2.b <sub>ikj</sub> 3.a <sub>kij</sub> )	(1.c <sub>jik</sub> 2.b <sub>jik</sub> 3.a <sub>kij</sub> )
(1.c <sub>jki</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )	(1.c <sub>jki</sub> 2.b <sub>ikj</sub> 3.a <sub>kij</sub> )	(1.c <sub>jki</sub> 2.b <sub>jik</sub> 3.a <sub>kij</sub> )
(1.c <sub>kij</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )	(1.c <sub>kij</sub> 2.b <sub>ikj</sub> 3.a <sub>kij</sub> )	(1.c <sub>kij</sub> 2.b <sub>jik</sub> 3.a <sub>kij</sub> )
(1.c <sub>kji</sub> 2.b <sub>ijk</sub> 3.a <sub>kij</sub> )	(1.c <sub>kji</sub> 2.b <sub>ikj</sub> 3.a <sub>kij</sub> )	(1.c <sub>kji</sub> 2.b <sub>jik</sub> 3.a <sub>kij</sub> )

(1.c <sub>jki</sub> 2.b <sub>jki</sub> 3.a <sub>kij</sub> )		
(1.c <sub>kij</sub> 2.b <sub>jki</sub> 3.a <sub>kij</sub> )	(1.c <sub>kij</sub> 2.b <sub>kij</sub> 3.a <sub>kij</sub> )	
(1.c <sub>kji</sub> 2.b <sub>jki</sub> 3.a <sub>kij</sub> )	(1.c <sub>kji</sub> 2.b <sub>kij</sub> 3.a <sub>kij</sub> )	(1.c <sub>kji</sub> 2.b <sub>kji</sub> 3.a <sub>kij</sub> )

(1.c <sub>ijk</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )		
(1.c <sub>ikj</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )	(1.c <sub>ikj</sub> 2.b <sub>ikj</sub> 3.a <sub>kji</sub> )	
(1.c <sub>jik</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )	(1.c <sub>jik</sub> 2.b <sub>ikj</sub> 3.a <sub>kji</sub> )	(1.c <sub>jik</sub> 2.b <sub>jik</sub> 3.a <sub>kji</sub> )
(1.c <sub>jki</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )	(1.c <sub>jki</sub> 2.b <sub>ikj</sub> 3.a <sub>kji</sub> )	(1.c <sub>jki</sub> 2.b <sub>jik</sub> 3.a <sub>kji</sub> )
(1.c <sub>kij</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )	(1.c <sub>kij</sub> 2.b <sub>ikj</sub> 3.a <sub>kji</sub> )	(1.c <sub>kij</sub> 2.b <sub>jik</sub> 3.a <sub>kji</sub> )
(1.c <sub>kji</sub> 2.b <sub>ijk</sub> 3.a <sub>kji</sub> )	(1.c <sub>kji</sub> 2.b <sub>ikj</sub> 3.a <sub>kji</sub> )	(1.c <sub>kji</sub> 2.b <sub>jik</sub> 3.a <sub>kji</sub> )

(1.c <sub>jki</sub> 2.b <sub>jki</sub> 3.a <sub>kji</sub> )		
(1.c <sub>kij</sub> 2.b <sub>jki</sub> 3.a <sub>kji</sub> )	(1.c <sub>kij</sub> 2.b <sub>kij</sub> 3.a <sub>kji</sub> )	
(1.c <sub>kji</sub> 2.b <sub>jki</sub> 3.a <sub>kji</sub> )	(1.c <sub>kji</sub> 2.b <sub>kij</sub> 3.a <sub>kji</sub> )	(1.c <sub>kji</sub> 2.b <sub>kji</sub> 3.a <sub>kji</sub> )

# 1<sup>st</sup> permutation of reality thematics

- |   |   |   |
|---|---|---|
| (c.1 <sub>kji</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) |   |   |
| (c.1 <sub>jki</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>jki</sub> b.2 <sub>jki</sub> a.3 <sub>kji</sub> ) |   |
| (c.1 <sub>kij</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>jki</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>kij</sub> a.3 <sub>kji</sub> ) |
| (c.1 <sub>ikj</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>jki</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>kij</sub> a.3 <sub>kji</sub> ) |
| (c.1 <sub>jik</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jki</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>kij</sub> a.3 <sub>kji</sub> ) |
| (c.1 <sub>ijk</sub> b.2 <sub>kji</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jki</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>kij</sub> a.3 <sub>kji</sub> ) |
|   |   |   |
| (c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> a.3 <sub>kji</sub> ) |   |   |
| (c.1 <sub>jik</sub> b.2 <sub>ikj</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jik</sub> a.3 <sub>kji</sub> ) |   |
| (c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jik</sub> a.3 <sub>kji</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> a.3 <sub>kji</sub> ) |
|   |   |   |
| (c.1 <sub>kji</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) |   |   |
| (c.1 <sub>jki</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>jki</sub> b.2 <sub>jki</sub> a.3 <sub>jki</sub> ) |   |
| (c.1 <sub>kij</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>jki</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>kij</sub> a.3 <sub>jki</sub> ) |
| (c.1 <sub>ikj</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>jki</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>kij</sub> a.3 <sub>jki</sub> ) |
| (c.1 <sub>jik</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jki</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>kij</sub> a.3 <sub>jki</sub> ) |
| (c.1 <sub>ijk</sub> b.2 <sub>kji</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jki</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>kij</sub> a.3 <sub>jki</sub> ) |
|   |   |   |
| (c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> a.3 <sub>jki</sub> ) |   |   |
| (c.1 <sub>jik</sub> b.2 <sub>ikj</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jik</sub> a.3 <sub>jki</sub> ) |   |
| (c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jik</sub> a.3 <sub>jki</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> a.3 <sub>jki</sub> ) |
|   |   |   |
| (c.1 <sub>kji</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) |   |   |
| (c.1 <sub>jki</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>jki</sub> b.2 <sub>jki</sub> a.3 <sub>kij</sub> ) |   |
| (c.1 <sub>kij</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>jki</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>kij</sub> a.3 <sub>kij</sub> ) |
| (c.1 <sub>ikj</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>jki</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>kij</sub> a.3 <sub>kij</sub> ) |
| (c.1 <sub>jik</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jki</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>kij</sub> a.3 <sub>kij</sub> ) |
| (c.1 <sub>ijk</sub> b.2 <sub>kji</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jki</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>kij</sub> a.3 <sub>kij</sub> ) |
|   |   |   |
| (c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> a.3 <sub>kij</sub> ) |   |   |
| (c.1 <sub>jik</sub> b.2 <sub>ikj</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jik</sub> a.3 <sub>kij</sub> ) |   |
| (c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jik</sub> a.3 <sub>kij</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> a.3 <sub>kij</sub> ) |
|   |   |   |
| (c.1 <sub>kji</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) |   |   |
| (c.1 <sub>jki</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>jki</sub> b.2 <sub>jki</sub> a.3 <sub>ikj</sub> ) |   |
| (c.1 <sub>kij</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>jki</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>kij</sub> b.2 <sub>kij</sub> a.3 <sub>ikj</sub> ) |
| (c.1 <sub>ikj</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>jki</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>ikj</sub> b.2 <sub>kij</sub> a.3 <sub>ikj</sub> ) |
| (c.1 <sub>jik</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>jki</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>jik</sub> b.2 <sub>kij</sub> a.3 <sub>ikj</sub> ) |
| (c.1 <sub>ijk</sub> b.2 <sub>kji</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>jki</sub> a.3 <sub>ikj</sub> ) | (c.1 <sub>ijk</sub> b.2 <sub>kij</sub> a.3 <sub>ikj</sub> ) |

$(c.1_{ikj} \ b.2_{ikj} \ a.3_{ikj})$   
 $(c.1_{jik} \ b.2_{ikj} \ a.3_{ikj})$      $(c.1_{jik} \ b.2_{jik} \ a.3_{ikj})$   
 $(c.1_{ijk} \ b.2_{ikj} \ a.3_{ikj})$      $(c.1_{ijk} \ b.2_{jik} \ a.3_{ikj})$      $(c.1_{ijk} \ b.2_{ijk} \ a.3_{ikj})$

$(c.1_{kji} \ b.2_{kji} \ a.3_{jik})$   
 $(c.1_{jki} \ b.2_{kji} \ a.3_{jik})$      $(c.1_{jki} \ b.2_{jki} \ a.3_{jik})$   
 $(c.1_{kij} \ b.2_{kji} \ a.3_{jik})$      $(c.1_{kij} \ b.2_{jki} \ a.3_{jik})$      $(c.1_{kij} \ b.2_{kij} \ a.3_{jik})$   
 $(c.1_{ikj} \ b.2_{kji} \ a.3_{jik})$      $(c.1_{ikj} \ b.2_{jki} \ a.3_{jik})$      $(c.1_{ikj} \ b.2_{kij} \ a.3_{jik})$   
 $(c.1_{jik} \ b.2_{kji} \ a.3_{jik})$      $(c.1_{jik} \ b.2_{jki} \ a.3_{jik})$      $(c.1_{jik} \ b.2_{kij} \ a.3_{jik})$   
 $(c.1_{ijk} \ b.2_{kji} \ a.3_{jik})$      $(c.1_{ijk} \ b.2_{jki} \ a.3_{jik})$      $(c.1_{ijk} \ b.2_{kij} \ a.3_{jik})$

$(c.1_{ikj} \ b.2_{ikj} \ a.3_{jik})$   
 $(c.1_{jik} \ b.2_{ikj} \ a.3_{jik})$      $(c.1_{jik} \ b.2_{jik} \ a.3_{jik})$   
 $(c.1_{ijk} \ b.2_{ikj} \ a.3_{jik})$      $(c.1_{ijk} \ b.2_{jik} \ a.3_{jik})$      $(c.1_{ijk} \ b.2_{ijk} \ a.3_{jik})$

$(c.1_{kji} \ b.2_{kji} \ a.3_{ijk})$   
 $(c.1_{jki} \ b.2_{kji} \ a.3_{ijk})$      $(c.1_{jki} \ b.2_{jki} \ a.3_{ijk})$   
 $(c.1_{kij} \ b.2_{kji} \ a.3_{ijk})$      $(c.1_{kij} \ b.2_{jki} \ a.3_{ijk})$      $(c.1_{kij} \ b.2_{kij} \ a.3_{ijk})$   
 $(c.1_{ikj} \ b.2_{kji} \ a.3_{ijk})$      $(c.1_{ikj} \ b.2_{jki} \ a.3_{ijk})$      $(c.1_{ikj} \ b.2_{kij} \ a.3_{ijk})$   
 $(c.1_{jik} \ b.2_{kji} \ a.3_{ijk})$      $(c.1_{jik} \ b.2_{jki} \ a.3_{ijk})$      $(c.1_{jik} \ b.2_{kij} \ a.3_{ijk})$   
 $(c.1_{ijk} \ b.2_{kji} \ a.3_{ijk})$      $(c.1_{ijk} \ b.2_{jki} \ a.3_{ijk})$      $(c.1_{ijk} \ b.2_{kij} \ a.3_{ijk})$

$(c.1_{ikj} \ b.2_{ikj} \ a.3_{ijk})$   
 $(c.1_{jik} \ b.2_{ikj} \ a.3_{ijk})$      $(c.1_{jik} \ b.2_{jik} \ a.3_{ijk})$   
 $(c.1_{ijk} \ b.2_{ikj} \ a.3_{ijk})$      $(c.1_{ijk} \ b.2_{jik} \ a.3_{ijk})$      $(c.1_{ijk} \ b.2_{ijk} \ a.3_{ijk})$

## 2<sup>nd</sup> permutation of reality thematics

$(b.2_{kji} \ c.1_{kji} \ a.3_{kji})$   
 $(b.2_{kji} \ c.1_{jki} \ a.3_{kji})$      $(b.2_{jki} \ c.1_{jki} \ a.3_{kji})$   
 $(b.2_{kji} \ c.1_{kij} \ a.3_{kji})$      $(b.2_{jki} \ c.1_{kij} \ a.3_{kji})$      $(b.2_{kij} \ c.1_{kij} \ a.3_{kji})$   
 $(b.2_{kji} \ c.1_{ikj} \ a.3_{kji})$      $(b.2_{jki} \ c.1_{ikj} \ a.3_{kji})$      $(b.2_{kij} \ c.1_{ikj} \ a.3_{kji})$   
 $(b.2_{kji} \ c.1_{jik} \ a.3_{kji})$      $(b.2_{jki} \ c.1_{jik} \ a.3_{kji})$      $(b.2_{kij} \ c.1_{jik} \ a.3_{kji})$   
 $(b.2_{kji} \ c.1_{ijk} \ a.3_{kji})$      $(b.2_{jki} \ c.1_{ijk} \ a.3_{kji})$      $(b.2_{kij} \ c.1_{ijk} \ a.3_{kji})$

$(b.2_{ikj} \ c.1_{ikj} \ a.3_{kji})$   
 $(b.2_{ikj} \ c.1_{jik} \ a.3_{kji})$      $(b.2_{jik} \ c.1_{jik} \ a.3_{kji})$   
 $(b.2_{ikj} \ c.1_{ijk} \ a.3_{kji})$      $(b.2_{jik} \ c.1_{ijk} \ a.3_{kji})$      $(b.2_{ijk} \ c.1_{ijk} \ a.3_{kji})$

(b.2 <sub>kji</sub> c.1 <sub>kji</sub> a.3 <sub>jki</sub> )		
(b.2 <sub>kji</sub> c.1 <sub>jki</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jki</sub> a.3 <sub>jki</sub> )	
(b.2 <sub>kji</sub> c.1 <sub>kij</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jki</sub> c.1 <sub>kij</sub> a.3 <sub>jki</sub> )	(b.2 <sub>kij</sub> c.1 <sub>kij</sub> a.3 <sub>jki</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ikj</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ikj</sub> a.3 <sub>jki</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ikj</sub> a.3 <sub>jki</sub> )
(b.2 <sub>kji</sub> c.1 <sub>jik</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jik</sub> a.3 <sub>jki</sub> )	(b.2 <sub>kij</sub> c.1 <sub>jik</sub> a.3 <sub>jki</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )

(b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> a.3 <sub>jki</sub> )		
(b.2 <sub>ikj</sub> c.1 <sub>jik</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jik</sub> c.1 <sub>jik</sub> a.3 <sub>jki</sub> )	
(b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )	(b.2 <sub>jik</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )	(b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> a.3 <sub>jki</sub> )

(b.2 <sub>kji</sub> c.1 <sub>kji</sub> a.3 <sub>kij</sub> )		
(b.2 <sub>kji</sub> c.1 <sub>jki</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jki</sub> a.3 <sub>kij</sub> )	
(b.2 <sub>kji</sub> c.1 <sub>kij</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jki</sub> c.1 <sub>kij</sub> a.3 <sub>kij</sub> )	(b.2 <sub>kij</sub> c.1 <sub>kij</sub> a.3 <sub>kij</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ikj</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ikj</sub> a.3 <sub>kij</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ikj</sub> a.3 <sub>kij</sub> )
(b.2 <sub>kji</sub> c.1 <sub>jik</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jik</sub> a.3 <sub>kij</sub> )	(b.2 <sub>kij</sub> c.1 <sub>jik</sub> a.3 <sub>kij</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )

(b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> a.3 <sub>kij</sub> )		
(b.2 <sub>ikj</sub> c.1 <sub>jik</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jik</sub> c.1 <sub>jik</sub> a.3 <sub>kij</sub> )	
(b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )	(b.2 <sub>jik</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )	(b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> a.3 <sub>kij</sub> )

(b.2 <sub>kji</sub> c.1 <sub>kji</sub> a.3 <sub>ikj</sub> )		
(b.2 <sub>kji</sub> c.1 <sub>jki</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jki</sub> a.3 <sub>ikj</sub> )	
(b.2 <sub>kji</sub> c.1 <sub>kij</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jki</sub> c.1 <sub>kij</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>kij</sub> c.1 <sub>kij</sub> a.3 <sub>ikj</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> )
(b.2 <sub>kji</sub> c.1 <sub>jik</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jik</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>kij</sub> c.1 <sub>jik</sub> a.3 <sub>ikj</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )

(b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> )		
(b.2 <sub>ikj</sub> c.1 <sub>jik</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jik</sub> c.1 <sub>jik</sub> a.3 <sub>ikj</sub> )	
(b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>jik</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )	(b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> )

(b.2 <sub>kji</sub> c.1 <sub>kji</sub> a.3 <sub>jik</sub> )		
(b.2 <sub>kji</sub> c.1 <sub>jki</sub> a.3 <sub>jik</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jki</sub> a.3 <sub>jik</sub> )	
(b.2 <sub>kji</sub> c.1 <sub>kij</sub> a.3 <sub>jik</sub> )	(b.2 <sub>jki</sub> c.1 <sub>kij</sub> a.3 <sub>jik</sub> )	(b.2 <sub>kij</sub> c.1 <sub>kij</sub> a.3 <sub>jik</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ikj</sub> a.3 <sub>jik</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ikj</sub> a.3 <sub>jik</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ikj</sub> a.3 <sub>jik</sub> )
(b.2 <sub>kji</sub> c.1 <sub>jik</sub> a.3 <sub>jik</sub> )	(b.2 <sub>jki</sub> c.1 <sub>jik</sub> a.3 <sub>jik</sub> )	(b.2 <sub>kij</sub> c.1 <sub>jik</sub> a.3 <sub>jik</sub> )
(b.2 <sub>kji</sub> c.1 <sub>ijk</sub> a.3 <sub>jik</sub> )	(b.2 <sub>jki</sub> c.1 <sub>ijk</sub> a.3 <sub>jik</sub> )	(b.2 <sub>kij</sub> c.1 <sub>ijk</sub> a.3 <sub>jik</sub> )

$(b.2_{ikj} \ c.1_{ikj} \ a.3_{ijk})$   
 $(b.2_{ikj} \ c.1_{ijk} \ a.3_{ijk})$   
 $(b.2_{ikj} \ c.1_{ijk} \ a.3_{ijk})$

$(b.2_{kji} \ c.1_{kji} \ a.3_{ijk})$   
 $(b.2_{kji} \ c.1_{jki} \ a.3_{ijk})$   
 $(b.2_{kji} \ c.1_{kij} \ a.3_{ijk})$   
 $(b.2_{kji} \ c.1_{ikj} \ a.3_{ijk})$   
 $(b.2_{kji} \ c.1_{jik} \ a.3_{ijk})$   
 $(b.2_{kji} \ c.1_{ijk} \ a.3_{ijk})$

$(b.2_{ikj} \ c.1_{ikj} \ a.3_{ijk})$   
 $(b.2_{ikj} \ c.1_{ijk} \ a.3_{ijk})$   
 $(b.2_{ikj} \ c.1_{ijk} \ a.3_{ijk})$

### 3<sup>rd</sup> permutation of reality thematics

$(c.1_{kji} \ a.3_{kji} \ b.2_{kji})$   
 $(c.1_{jki} \ a.3_{kji} \ b.2_{kji})$   
 $(c.1_{kij} \ a.3_{kji} \ b.2_{kji})$   
 $(c.1_{ikj} \ a.3_{kji} \ b.2_{kji})$   
 $(c.1_{jik} \ a.3_{kji} \ b.2_{kji})$   
 $(c.1_{ijk} \ a.3_{kji} \ b.2_{kji})$

$(c.1_{ikj} \ a.3_{kji} \ b.2_{ikj})$   
 $(c.1_{jik} \ a.3_{kji} \ b.2_{ikj})$   
 $(c.1_{ijk} \ a.3_{kji} \ b.2_{ikj})$

$(c.1_{kji} \ a.3_{jki} \ b.2_{kji})$   
 $(c.1_{jki} \ a.3_{jki} \ b.2_{kji})$   
 $(c.1_{kij} \ a.3_{jki} \ b.2_{kji})$   
 $(c.1_{ikj} \ a.3_{jki} \ b.2_{kji})$   
 $(c.1_{jik} \ a.3_{jki} \ b.2_{kji})$   
 $(c.1_{ijk} \ a.3_{jki} \ b.2_{kji})$

$(c.1_{ikj} \ a.3_{jki} \ b.2_{ikj})$   
 $(c.1_{jik} \ a.3_{jki} \ b.2_{ikj})$   
 $(c.1_{ijk} \ a.3_{jki} \ b.2_{ikj})$

(c.1 <sub>kji</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )		
(c.1 <sub>jki</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jki</sub> a.3 <sub>kij</sub> b.2 <sub>jki</sub> )	
(c.1 <sub>kij</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )	(c.1 <sub>kij</sub> a.3 <sub>kij</sub> b.2 <sub>jki</sub> )	(c.1 <sub>kij</sub> a.3 <sub>kij</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ikj</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>kij</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>kij</sub> b.2 <sub>kij</sub> )
(c.1 <sub>jik</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jik</sub> a.3 <sub>kij</sub> b.2 <sub>jki</sub> )	(c.1 <sub>jik</sub> a.3 <sub>kij</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>kij</sub> )

(c.1 <sub>ikj</sub> a.3 <sub>kij</sub> b.2 <sub>ikj</sub> )		
(c.1 <sub>jik</sub> a.3 <sub>kij</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>jik</sub> a.3 <sub>kij</sub> b.2 <sub>jik</sub> )	
(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>jik</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>ijk</sub> )

(c.1 <sub>kji</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )		
(c.1 <sub>jki</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jki</sub> a.3 <sub>ikj</sub> b.2 <sub>jki</sub> )	
(c.1 <sub>kij</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )	(c.1 <sub>kij</sub> a.3 <sub>ikj</sub> b.2 <sub>jki</sub> )	(c.1 <sub>kij</sub> a.3 <sub>ikj</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> b.2 <sub>kij</sub> )
(c.1 <sub>jik</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jik</sub> a.3 <sub>ikj</sub> b.2 <sub>jki</sub> )	(c.1 <sub>jik</sub> a.3 <sub>ikj</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>kij</sub> )

(c.1 <sub>ikj</sub> a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> )		
(c.1 <sub>jik</sub> a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>jik</sub> a.3 <sub>ikj</sub> b.2 <sub>jik</sub> )	
(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>jik</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ikj</sub> b.2 <sub>ijk</sub> )

(c.1 <sub>kji</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )		
(c.1 <sub>jki</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jki</sub> a.3 <sub>jik</sub> b.2 <sub>jki</sub> )	
(c.1 <sub>kij</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )	(c.1 <sub>kij</sub> a.3 <sub>jik</sub> b.2 <sub>jki</sub> )	(c.1 <sub>kij</sub> a.3 <sub>jik</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ikj</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>jik</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>jik</sub> b.2 <sub>kij</sub> )
(c.1 <sub>jik</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jik</sub> a.3 <sub>jik</sub> b.2 <sub>jki</sub> )	(c.1 <sub>jik</sub> a.3 <sub>jik</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>kij</sub> )

(c.1 <sub>ikj</sub> a.3 <sub>jik</sub> b.2 <sub>ikj</sub> )		
(c.1 <sub>jik</sub> a.3 <sub>jik</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>jik</sub> a.3 <sub>jik</sub> b.2 <sub>jik</sub> )	
(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>ikj</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>jik</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>jik</sub> b.2 <sub>ijk</sub> )

(c.1 <sub>kji</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )		
(c.1 <sub>jki</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jki</sub> a.3 <sub>ijk</sub> b.2 <sub>jki</sub> )	
(c.1 <sub>kij</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )	(c.1 <sub>kij</sub> a.3 <sub>ijk</sub> b.2 <sub>jki</sub> )	(c.1 <sub>kij</sub> a.3 <sub>ijk</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ikj</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>ijk</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ikj</sub> a.3 <sub>ijk</sub> b.2 <sub>kij</sub> )
(c.1 <sub>jik</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )	(c.1 <sub>jik</sub> a.3 <sub>ijk</sub> b.2 <sub>jki</sub> )	(c.1 <sub>jik</sub> a.3 <sub>ijk</sub> b.2 <sub>kij</sub> )
(c.1 <sub>ijk</sub> a.3 <sub>ijk</sub> b.2 <sub>kji</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ijk</sub> b.2 <sub>jki</sub> )	(c.1 <sub>ijk</sub> a.3 <sub>ijk</sub> b.2 <sub>kij</sub> )



$(c.1_{ikj} \ a.3_{ijk} \ b.2_{ikj})$   
 $(c.1_{jik} \ a.3_{ijk} \ b.2_{ikj})$       $(c.1_{jik} \ a.3_{ijk} \ b.2_{jik})$   
 $(c.1_{ijk} \ a.3_{ijk} \ b.2_{ikj})$       $(c.1_{ijk} \ a.3_{ijk} \ b.2_{jik})$       $(c.1_{ijk} \ a.3_{ijk} \ b.2_{ijk})$

#### 4<sup>th</sup> permutation of reality thematics

$(a.3_{kji} \ c.1_{kji} \ b.2_{kji})$   
 $(a.3_{kji} \ c.1_{jki} \ b.2_{kji})$       $(a.3_{kji} \ c.1_{jki} \ b.2_{jki})$   
 $(a.3_{kji} \ c.1_{kij} \ b.2_{kji})$       $(a.3_{kji} \ c.1_{kij} \ b.2_{jki})$       $(a.3_{kji} \ c.1_{kij} \ b.2_{kij})$   
 $(a.3_{kji} \ c.1_{ikj} \ b.2_{kji})$       $(a.3_{kji} \ c.1_{ikj} \ b.2_{jki})$       $(a.3_{kji} \ c.1_{ikj} \ b.2_{kij})$   
 $(a.3_{kji} \ c.1_{jik} \ b.2_{kji})$       $(a.3_{kji} \ c.1_{jik} \ b.2_{jki})$       $(a.3_{kji} \ c.1_{jik} \ b.2_{kij})$   
 $(a.3_{kji} \ c.1_{ijk} \ b.2_{kji})$       $(a.3_{kji} \ c.1_{ijk} \ b.2_{jki})$       $(a.3_{kji} \ c.1_{ijk} \ b.2_{kij})$

$(a.3_{kji} \ c.1_{ikj} \ b.2_{ikj})$   
 $(a.3_{kji} \ c.1_{jik} \ b.2_{ikj})$       $(a.3_{kji} \ c.1_{jik} \ b.2_{jik})$   
 $(a.3_{kji} \ c.1_{ijk} \ b.2_{ikj})$       $(a.3_{kji} \ c.1_{ijk} \ b.2_{jik})$       $(a.3_{kji} \ c.1_{ijk} \ b.2_{ijk})$

$(a.3_{jki} \ c.1_{kji} \ b.2_{kji})$   
 $(a.3_{jki} \ c.1_{jki} \ b.2_{kji})$       $(a.3_{jki} \ c.1_{jki} \ b.2_{jki})$   
 $(a.3_{jki} \ c.1_{kij} \ b.2_{kji})$       $(a.3_{jki} \ c.1_{kij} \ b.2_{jki})$       $(a.3_{jki} \ c.1_{kij} \ b.2_{kij})$   
 $(a.3_{jki} \ c.1_{ikj} \ b.2_{kji})$       $(a.3_{jki} \ c.1_{ikj} \ b.2_{jki})$       $(a.3_{jki} \ c.1_{ikj} \ b.2_{kij})$   
 $(a.3_{jki} \ c.1_{jik} \ b.2_{kji})$       $(a.3_{jki} \ c.1_{jik} \ b.2_{jki})$       $(a.3_{jki} \ c.1_{jik} \ b.2_{kij})$   
 $(a.3_{jki} \ c.1_{ijk} \ b.2_{kji})$       $(a.3_{jki} \ c.1_{ijk} \ b.2_{jki})$       $(a.3_{jki} \ c.1_{ijk} \ b.2_{kij})$

$(a.3_{jki} \ c.1_{ikj} \ b.2_{ikj})$   
 $(a.3_{jki} \ c.1_{jik} \ b.2_{ikj})$       $(a.3_{jki} \ c.1_{jik} \ b.2_{jik})$   
 $(a.3_{jki} \ c.1_{ijk} \ b.2_{ikj})$       $(a.3_{jki} \ c.1_{ijk} \ b.2_{jik})$       $(a.3_{jki} \ c.1_{ijk} \ b.2_{ijk})$

$(a.3_{kij} \ c.1_{kji} \ b.2_{kji})$   
 $(a.3_{kij} \ c.1_{jki} \ b.2_{kji})$       $(a.3_{kij} \ c.1_{jki} \ b.2_{jki})$   
 $(a.3_{kij} \ c.1_{kij} \ b.2_{kji})$       $(a.3_{kij} \ c.1_{kij} \ b.2_{jki})$       $(a.3_{kij} \ c.1_{kij} \ b.2_{kij})$   
 $(a.3_{kij} \ c.1_{ikj} \ b.2_{kji})$       $(a.3_{kij} \ c.1_{ikj} \ b.2_{jki})$       $(a.3_{kij} \ c.1_{ikj} \ b.2_{kij})$   
 $(a.3_{kij} \ c.1_{jik} \ b.2_{kji})$       $(a.3_{kij} \ c.1_{jik} \ b.2_{jki})$       $(a.3_{kij} \ c.1_{jik} \ b.2_{kij})$   
 $(a.3_{kij} \ c.1_{ijk} \ b.2_{kji})$       $(a.3_{kij} \ c.1_{ijk} \ b.2_{jki})$       $(a.3_{kij} \ c.1_{ijk} \ b.2_{kij})$

$(a.3_{kij} \ c.1_{ikj} \ b.2_{ikj})$   
 $(a.3_{kij} \ c.1_{jik} \ b.2_{ikj})$       $(a.3_{kij} \ c.1_{jik} \ b.2_{jik})$   
 $(a.3_{kij} \ c.1_{ijk} \ b.2_{ikj})$       $(a.3_{kij} \ c.1_{ijk} \ b.2_{jik})$       $(a.3_{kij} \ c.1_{ijk} \ b.2_{ijk})$

(a.3 <sub>ikj</sub> c.1 <sub>kji</sub> b.2 <sub>kji</sub> )		
(a.3 <sub>ikj</sub> c.1 <sub>jki</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>jki</sub> b.2 <sub>jki</sub> )	
(a.3 <sub>ikj</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>kij</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ikj</sub> c.1 <sub>jik</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>jik</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>jik</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>kij</sub> )

(a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> )		
(a.3 <sub>ikj</sub> c.1 <sub>jik</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>jik</sub> b.2 <sub>jik</sub> )	
(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>jik</sub> )	(a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> )

(a.3 <sub>jik</sub> c.1 <sub>kji</sub> b.2 <sub>kji</sub> )		
(a.3 <sub>jik</sub> c.1 <sub>jki</sub> b.2 <sub>kji</sub> )	(a.3 <sub>jik</sub> c.1 <sub>jki</sub> b.2 <sub>jki</sub> )	
(a.3 <sub>jik</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )	(a.3 <sub>jik</sub> c.1 <sub>kij</sub> b.2 <sub>jki</sub> )	(a.3 <sub>jik</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )
(a.3 <sub>jik</sub> c.1 <sub>ikj</sub> b.2 <sub>kji</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ikj</sub> b.2 <sub>jki</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ikj</sub> b.2 <sub>kij</sub> )
(a.3 <sub>jik</sub> c.1 <sub>jik</sub> b.2 <sub>kji</sub> )	(a.3 <sub>jik</sub> c.1 <sub>jik</sub> b.2 <sub>jki</sub> )	(a.3 <sub>jik</sub> c.1 <sub>jik</sub> b.2 <sub>kij</sub> )
(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>kji</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>jki</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>kij</sub> )

(a.3 <sub>jik</sub> c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> )		
(a.3 <sub>jik</sub> c.1 <sub>jik</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>jik</sub> c.1 <sub>jik</sub> b.2 <sub>jik</sub> )	
(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>jik</sub> )	(a.3 <sub>jik</sub> c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> )

(a.3 <sub>ijk</sub> c.1 <sub>kji</sub> b.2 <sub>kji</sub> )		
(a.3 <sub>ijk</sub> c.1 <sub>jki</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>jki</sub> b.2 <sub>jki</sub> )	
(a.3 <sub>ijk</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>kij</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>kij</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ijk</sub> c.1 <sub>ikj</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ikj</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ikj</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ijk</sub> c.1 <sub>jik</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>jik</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>jik</sub> b.2 <sub>kij</sub> )
(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>kji</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>jki</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>kij</sub> )

(a.3 <sub>ijk</sub> c.1 <sub>ikj</sub> b.2 <sub>ikj</sub> )		
(a.3 <sub>ijk</sub> c.1 <sub>jik</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>jik</sub> b.2 <sub>jik</sub> )	
(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>ikj</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>jik</sub> )	(a.3 <sub>ijk</sub> c.1 <sub>ijk</sub> b.2 <sub>ijk</sub> )

## 5<sup>th</sup> permutation of reality thematics

(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>kji</sub> )		
(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>jki</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kji</sub> c.1 <sub>jki</sub> )	
(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>kij</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kji</sub> c.1 <sub>kij</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kji</sub> c.1 <sub>kij</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kji</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kji</sub> c.1 <sub>ikj</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kji</sub> c.1 <sub>jik</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kji</sub> c.1 <sub>jik</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>ikj</sub> a.3 <sub>kji</sub> c.1 <sub>ikj</sub> )		
(b.2 <sub>ikj</sub> a.3 <sub>kji</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jik</sub> a.3 <sub>kji</sub> c.1 <sub>jik</sub> )	
(b.2 <sub>ikj</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jik</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>ijk</sub> a.3 <sub>kji</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>kji</sub> )		
(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>jki</sub> )	(b.2 <sub>jki</sub> a.3 <sub>jki</sub> c.1 <sub>jki</sub> )	
(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>kij</sub> )	(b.2 <sub>jki</sub> a.3 <sub>jki</sub> c.1 <sub>kij</sub> )	(b.2 <sub>kij</sub> a.3 <sub>jki</sub> c.1 <sub>kij</sub> )
(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>jki</sub> a.3 <sub>jki</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>kij</sub> a.3 <sub>jki</sub> c.1 <sub>ikj</sub> )
(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jki</sub> a.3 <sub>jki</sub> c.1 <sub>jik</sub> )	(b.2 <sub>kij</sub> a.3 <sub>jki</sub> c.1 <sub>jik</sub> )
(b.2 <sub>kji</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jki</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>kij</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>ikj</sub> a.3 <sub>jki</sub> c.1 <sub>ikj</sub> )		
(b.2 <sub>ikj</sub> a.3 <sub>jki</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jik</sub> a.3 <sub>jki</sub> c.1 <sub>jik</sub> )	
(b.2 <sub>ikj</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jik</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>ijk</sub> a.3 <sub>jki</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>kji</sub> )		
(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>jki</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kij</sub> c.1 <sub>jki</sub> )	
(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>kij</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kij</sub> c.1 <sub>kij</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kij</sub> c.1 <sub>kij</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kij</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kij</sub> c.1 <sub>ikj</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kij</sub> c.1 <sub>jik</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kij</sub> c.1 <sub>jik</sub> )
(b.2 <sub>kji</sub> a.3 <sub>kij</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jki</sub> a.3 <sub>kij</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>kij</sub> a.3 <sub>kij</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>ikj</sub> a.3 <sub>kij</sub> c.1 <sub>ikj</sub> )		
(b.2 <sub>ikj</sub> a.3 <sub>kij</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jik</sub> a.3 <sub>kij</sub> c.1 <sub>jik</sub> )	
(c.1 <sub>ijk</sub> a.3 <sub>kij</sub> b.2 <sub>ikj</sub> )	(b.2 <sub>jik</sub> a.3 <sub>kij</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>ijk</sub> a.3 <sub>kij</sub> c.1 <sub>ijk</sub> )

(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>kji</sub> )		
(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>jki</sub> )	(b.2 <sub>jki</sub> a.3 <sub>ikj</sub> c.1 <sub>jki</sub> )	
(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>kij</sub> )	(b.2 <sub>jki</sub> a.3 <sub>ikj</sub> c.1 <sub>kij</sub> )	(b.2 <sub>kij</sub> a.3 <sub>ikj</sub> c.1 <sub>kij</sub> )
(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>jki</sub> a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> )	(b.2 <sub>kij</sub> a.3 <sub>ikj</sub> c.1 <sub>ikj</sub> )
(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>jik</sub> )	(b.2 <sub>jki</sub> a.3 <sub>ikj</sub> c.1 <sub>jik</sub> )	(b.2 <sub>kij</sub> a.3 <sub>ikj</sub> c.1 <sub>jik</sub> )
(b.2 <sub>kji</sub> a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>jki</sub> a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> )	(b.2 <sub>kij</sub> a.3 <sub>ikj</sub> c.1 <sub>ijk</sub> )

$(b.2_{ikj} \ a.3_{ikj} \ c.1_{ikj})$   
 $(b.2_{ikj} \ a.3_{ikj} \ c.1_{ijk})$   
 $(b.2_{ikj} \ a.3_{ikj} \ c.1_{ijk})$

$(b.2_{kji} \ a.3_{jik} \ c.1_{kji})$   
 $(b.2_{kji} \ a.3_{jik} \ c.1_{jki})$   
 $(b.2_{kji} \ a.3_{jik} \ c.1_{kij})$   
 $(b.2_{kji} \ a.3_{jik} \ c.1_{ikj})$   
 $(b.2_{kji} \ a.3_{jik} \ c.1_{jik})$   
 $(b.2_{kji} \ a.3_{jik} \ c.1_{ijk})$

$(b.2_{ikj} \ a.3_{jik} \ c.1_{ikj})$   
 $(b.2_{ikj} \ a.3_{jik} \ c.1_{jik})$   
 $(b.2_{ikj} \ a.3_{jik} \ c.1_{ijk})$

$(b.2_{kji} \ a.3_{ijk} \ c.1_{kji})$   
 $(b.2_{kji} \ a.3_{ijk} \ c.1_{jki})$   
 $(b.2_{kji} \ a.3_{ijk} \ c.1_{kij})$   
 $(b.2_{kji} \ a.3_{ijk} \ c.1_{ikj})$   
 $(b.2_{kji} \ a.3_{ijk} \ c.1_{jik})$   
 $(b.2_{kji} \ a.3_{ijk} \ c.1_{ijk})$

$(b.2_{ikj} \ a.3_{ijk} \ c.1_{ikj})$   
 $(b.2_{ikj} \ a.3_{ijk} \ c.1_{jik})$   
 $(b.2_{ikj} \ a.3_{ijk} \ c.1_{ijk})$

**6<sup>th</sup> permutation of reality thematics**

$(a.3_{kji} \ b.2_{kji} \ c.1_{kji})$   
 $(a.3_{kji} \ b.2_{kji} \ c.1_{jki})$   
 $(a.3_{kji} \ b.2_{kji} \ c.1_{kij})$   
 $(a.3_{kji} \ b.2_{kji} \ c.1_{ikj})$   
 $(a.3_{kji} \ b.2_{kji} \ c.1_{jik})$   
 $(a.3_{kji} \ b.2_{kji} \ c.1_{ijk})$

$(a.3_{kji} \ b.2_{ikj} \ c.1_{ikj})$   
 $(a.3_{kji} \ b.2_{ikj} \ c.1_{jik})$   
 $(a.3_{kji} \ b.2_{ikj} \ c.1_{ijk})$

(a.3 <sub>jki</sub> b.2 <sub>kji</sub> c.1 <sub>kji</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jki</sub> c.1 <sub>jki</sub> )	(a.3 <sub>jki</sub> b.2 <sub>kij</sub> c.1 <sub>kij</sub> )
(a.3 <sub>jki</sub> b.2 <sub>kji</sub> c.1 <sub>jki</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jki</sub> c.1 <sub>kij</sub> )	(a.3 <sub>jki</sub> b.2 <sub>kij</sub> c.1 <sub>ikj</sub> )
(a.3 <sub>jki</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jki</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>jki</sub> b.2 <sub>kij</sub> c.1 <sub>jik</sub> )
(a.3 <sub>jki</sub> b.2 <sub>kji</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jki</sub> c.1 <sub>jik</sub> )	(a.3 <sub>jki</sub> b.2 <sub>kij</sub> c.1 <sub>ijk</sub> )
(a.3 <sub>jki</sub> b.2 <sub>kji</sub> c.1 <sub>jik</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jki</sub> c.1 <sub>ijk</sub> )	

(a.3 <sub>jki</sub> b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jik</sub> c.1 <sub>jik</sub> )	
(a.3 <sub>jki</sub> b.2 <sub>ikj</sub> c.1 <sub>jik</sub> )	(a.3 <sub>jki</sub> b.2 <sub>jik</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>jki</sub> b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> )
(a.3 <sub>jki</sub> b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> )		

(a.3 <sub>kij</sub> b.2 <sub>kji</sub> c.1 <sub>kji</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jki</sub> c.1 <sub>jki</sub> )	
(a.3 <sub>kij</sub> b.2 <sub>kji</sub> c.1 <sub>jki</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jki</sub> c.1 <sub>kij</sub> )	(a.3 <sub>kij</sub> b.2 <sub>kij</sub> c.1 <sub>kij</sub> )
(a.3 <sub>kij</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jki</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>kij</sub> b.2 <sub>kij</sub> c.1 <sub>ikj</sub> )
(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>kij</sub> )	(a.3 <sub>kij</sub> b.2 <sub>kij</sub> c.1 <sub>jik</sub> )
(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jki</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>kij</sub> b.2 <sub>kij</sub> c.1 <sub>ijk</sub> )

(a.3 <sub>kij</sub> b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jik</sub> c.1 <sub>jik</sub> )	
(a.3 <sub>kij</sub> b.2 <sub>ikj</sub> c.1 <sub>jik</sub> )	(a.3 <sub>kij</sub> b.2 <sub>jik</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>kij</sub> b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> )
(a.3 <sub>kij</sub> b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> )		

(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>kji</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jki</sub> c.1 <sub>jki</sub> )	
(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>jki</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jki</sub> c.1 <sub>kij</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>kij</sub> c.1 <sub>kij</sub> )
(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jki</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>kij</sub> c.1 <sub>ikj</sub> )
(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jki</sub> c.1 <sub>jik</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>kij</sub> c.1 <sub>jik</sub> )
(a.3 <sub>ikj</sub> b.2 <sub>kji</sub> c.1 <sub>jik</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jki</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>kij</sub> c.1 <sub>ijk</sub> )

(a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jik</sub> c.1 <sub>jik</sub> )	
(a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> c.1 <sub>jik</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>jik</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>ikj</sub> b.2 <sub>ijk</sub> c.1 <sub>ijk</sub> )
(a.3 <sub>ikj</sub> b.2 <sub>ikj</sub> c.1 <sub>ijk</sub> )		

(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>kji</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>jki</sub> )	
(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>jki</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>kij</sub> )	(a.3 <sub>jik</sub> b.2 <sub>kij</sub> c.1 <sub>kij</sub> )
(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>kij</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>jik</sub> b.2 <sub>kij</sub> c.1 <sub>ikj</sub> )
(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>ikj</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>jik</sub> )	(a.3 <sub>jik</sub> b.2 <sub>kij</sub> c.1 <sub>jik</sub> )
(a.3 <sub>jik</sub> b.2 <sub>kji</sub> c.1 <sub>jik</sub> )	(a.3 <sub>jik</sub> b.2 <sub>jki</sub> c.1 <sub>ijk</sub> )	(a.3 <sub>jik</sub> b.2 <sub>kij</sub> c.1 <sub>ijk</sub> )

$$\begin{array}{ccc}
(a.3_{ijk} \ b.2_{ikj} \ c.1_{ikj}) & & \\
(a.3_{ijk} \ b.2_{ikj} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{jik} \ c.1_{ijk}) & \\
(a.3_{ijk} \ b.2_{ikj} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{jik} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{ijk} \ c.1_{ijk}) \\
\\
(a.3_{ijk} \ b.2_{kji} \ c.1_{kji}) & & \\
(a.3_{ijk} \ b.2_{kji} \ c.1_{jki}) & (a.3_{ijk} \ b.2_{jki} \ c.1_{jki}) & \\
(a.3_{ijk} \ b.2_{kji} \ c.1_{kij}) & (a.3_{ijk} \ b.2_{jki} \ c.1_{kij}) & (a.3_{ijk} \ b.2_{kij} \ c.1_{kij}) \\
(a.3_{ijk} \ b.2_{kji} \ c.1_{ikj}) & (a.3_{ijk} \ b.2_{jki} \ c.1_{ikj}) & (a.3_{ijk} \ b.2_{kij} \ c.1_{ikj}) \\
(a.3_{ijk} \ b.2_{kji} \ c.1_{jik}) & (a.3_{ijk} \ b.2_{jki} \ c.1_{jik}) & (a.3_{ijk} \ b.2_{kij} \ c.1_{jik}) \\
(a.3_{ijk} \ b.2_{kji} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{jki} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{kij} \ c.1_{ijk}) \\
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(a.3_{ijk} \ b.2_{ikj} \ c.1_{ikj}) & & \\
(a.3_{ijk} \ b.2_{ikj} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{jik} \ c.1_{ijk}) & \\
(a.3_{ijk} \ b.2_{ikj} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{jik} \ c.1_{ijk}) & (a.3_{ijk} \ b.2_{ijk} \ c.1_{ijk})
\end{array}$$

In chapter 1, we had shown that the occurrence of hallucinations means the polycontexturalization, i.e. the topological fibering of monocontextural semiotic systems, since the borders between signs and objects are abolished. In chapter 2, we had demonstrated that phenomena of dissociation caused by the loss of reality testing mean that the semiotic part-system of reality thematics is abolished. I.e., being unable to differentiate between a Self and its environment means the same as being unable to dualize a sign class as subjective representation of perception into its reality thematic whose presented structural realities only allow to reject infeasible programs.

Hermann Hermann, the protagonist of R.W. Fassbinder's movie "Depair. Eine Reise ins Licht" (1978), thus reaches just this point where we are at now. His Trip into the Light starts when he sees himself, while he has sex with his wife, sitting in the bedroom and conducting his own activities in the bed. A little after, while watching a movie which is based on the confusion of persons (a robber and a policeman), he turns around and sees himself observing himself a few rows of benches behind in the cinema. This doubling of his person brings him to an almost genial idea: He gets a life-insurance and plans to kill his doppelganger in order to start all over again, after his company is going to be bankrupt, his wife is cheating him with her cousin and National Socialism is uprising.

Up to this point, Hermann has only hallucinations and does therefore not really believe in the "real" existence of a second Hermann. Hence, he searches "another" person who looks like his himself and finds him in the drifter Felix

Weber. When we recognize that Hermann is convinced about the perfect similarity between him and Weber, while in our eyes, there is not a ghost of resemblance between the two men, we realize that Hermann has now reached the level of actual dissociation. He promises Felix Weber 1000 marks for changing clothes with him and driving through a town in order to be seen by people as an alibi for him, Hermann. When they meet in a forest place, Hermann kills Weber and changes the identity cards. However, he forgets to remove Weber's walking stick with his initials engraved. Still convinced that he committed the perfect murder, he travels to the Swiss mountains where he finds a quiet little hotel, waiting for his wife to come and starting a new life with her. Out of pure curiosity, he reads every day the newspapers and is shocked when he sees that the police have found out about the non-identity between Felix Weber and him. Finally, he realizes that he forgot to take Weber's walking stick with him, and this – and not the non-similarity between him and Weber – convinces him that his plans have failed: he sinks into despair, changes hotels, until one morning, he is recognized by the cousin of his wife. Paralyzed, he cannot flee anymore and waits for the police to come and arrest him. Asked by a policeman if he is Hermann Hermann, he first agrees, but then denies. When the heavily armed police take him out of his room, he says (slightly different in the movie): “This is a rehearsal. Hold those policemen. A famous film actor will presently come running out of this house. He is an arch-criminal but he must escape. You are asked to prevent them from grabbing him. This is part of the plot (...). I want to make a free passage for him from door to car. Remove its driver! Start the motor! Hold those policemen, knock them down, sit on them – we pay them for it (...). I want a clean getaway. That's all. Thank you. I'm coming out now” (Nabokov 1989, p. 212).

However, Hermann has not reached the third level of dissolution of Mind, the decrease of his cognitive capacities. From the standpoint of semiotics, hallucinations enlarge one's cognitive capacities by fibering a monocontextual system into a polycontextual one or even in more than one polycontextual system. When the second level is reached, however, the part-system of the reality thematics is abolished and with it the capacity of testing reality. The third level is reached, when the system of permutations, too, gets lost. What stays then form the gigantic semiotic system of  $15^{120}$  semiotic structures presented in this chapter, is basically nothing more than the 10 Peircean sign classes fibered into their polycontextual correspondences, depending on the number of contextures involved. In the case of our 3-adic 4-contextual semiotics, these are the 10 4-contextual sign classes without their dual reality thematics and without their possibility of 6 permutations each. In other words: While the classical logical identity is already abolished on level 2 by the elimination of

reality-testing, the two other, non-classical identities of the 4-contextual semiotic system are now lost, too, by the elimination of permuting the fundamental constituents of representing reality and thus their mutual identification. Therefore, in the last step of the dissolution of Mind on level 3, no identifications are possible anymore. Although there is no doubt that, e.g., Alzheimer patients show this level of mental dissolution, we also find it as a form of art, f. ex. in Dadaist texts or in the early work of Gertrude Stein.

One of the most famous examples is Hans Arp's poem "Kaspar ist tot" (1912). Every trial of identification of what is told is excluded, and so is every attempt at testing the reality that is described or represented in this text (Huelsenbeck 1964, p. 212 s.):

weh unser guter kaspar ist tot  
wer trägt nun die brennende fahne im zopf wer dreht die  
kaffeemühle  
wer lockt das idyllische reh  
auf dem meer verwirrte er die schiffe mit dem wörtchen  
parapluie und die winde nannte er bienenvater  
weh weh weh unser guter kaspar ist tot heiliger bimbam  
kaspar ist tot  
die heufische klappern in den glocken wenn man seinen vornamen  
ausspricht darum seufze ich weiter kaspar  
kaspar kaspar  
warum bist du ein stern geworden oder eine kette aus wasser  
an einem heißen wirbelwind oder ein euter aus  
schwarzem licht oder ein durchsichtiger Ziegel an der  
stöhnenden trommel des felsigen wesens  
jetzt vertrocknen unsere scheideln und sohlen und die feen  
liegen halbverkohlt auf den scheiterhaufen

Even more advanced as far as the impossibility of both reality testing and identifications are concerned, is the following text from Gertrude Stein's book "Birth and Marriage" (Stein 1957), written in 1924:

In that and there lay in that in their way it had lain in that way it had lain in their way it had lain as they may it had lain as they may may they as it lay may she as it lay may he as it lay as it lay may he as it lay may she as it lay may she as it lay may she as it lay may he as it lay may he yesterday as it lay may she today as it lay may he today as it lay may she yesterday as it lay may she yesterday as it lay and may it lay has it lain in this way has it lain in their way in this way does it lay in this way does it lay in their way does it lay in this way does it lay in their way.



As long as the system of permutations exists, someone is able to split up the “basic” order of a sign relation

(3.a 2.b 1.c)

into

(3.a 1.c 2.b),

meaning that an interpretant chooses a media for an object,

or into

(2.b 3.a 1.c),

meaning that an object serves an interpretant in order to be substituted by a media,

or into

(2.b 1.c 3.a),

meaning that an object is substituted by a media for an interpretant,

or into

(1.c 3.a 2.b),

meaning that a media is chosen by an interpretant for an object,

or, finally, into

(1.3 2.b 3.a),

meaning that a media represents an object for an interpretant,

so that the logical position of every category, represented by the semiotic order of the sign relation, can be evaluated negatively – namely in opposition to each other two categories, which only enables to determine its function and thus to identify the respective part of an object or concept that the sign relation represents. Thus, if these possibilities of identification by permutation of the

logical order of the semiotic constituents of a sign class are abolished, the representation either becomes static, i.e. contextless, or disappears, so that no understanding can be reached anymore. Only at this point, the Trip into the Light is complete. Hermann Hermann is arrested before he reaches this third level of dissolution of Mind. Thus, while the classical identity of a person gets lost already on the second level, when the system of reality thematics are abolished, the individuality of a person gets only lost on the third level, when also the system of the permutations are abolished. Therefore, semiotically, identity is connected with dualization, but individuality is connected with permutation.