

Theorie einer ontischen Nacht

1. In Toth (2019) war es uns erstmals gelungen, die Isomorphie von Zahl, Zeichen und Objekt zu bestimmen. Bekanntlich war die Isomorphie von Zahl und Zeichen bereits von Bense (1975, S. 168 ff.; 1981, S. 17 ff.) nachgewiesen worden. Dagegen beschränkte sich die, allerdings semiotische und nicht ontische, Subkategorisierung des Objektes in Systeme, Abbildungen und Repertoires auf den Objektbezug, also unter Vernachlässigung des Mittel- und des Interpretantenbezuges (vgl. Bense/Walther 1973, S. 80). Wir hatten allerdings festgestellt, daß diese drei Objektarten auch als Basisbegriffe für eine ontische Differenzierung dienen können und daß die drei Entitäten – Zahl, Zeichen, Objekt – die fundamentalen Bausteine eines „Universums des Geistes“ darstellen (vgl. dagegen Benses „Universum der Zeichen“ (Bense 1986)).

2. Im folgenden revidieren wir jedoch die Symbole, die wir für die drei ontischen Objektarten eingeführt hatten

Sys := \square

Abb := \sqsubset

Rep = —

Genau so, wie also die „generativen“ Relationen in den Trichotomien der drei Triaden des Zeichens von maximaler Konkretion zu maximaler Abstraktion verlaufen, d.h. vom Quali- über das Sin- zum Legizeichen, vom Icon über den Index zum Symbol und vom Rhema über das Dicent zum Argument, so wird die „ontische Trichotomie“ durch zunehmende topologische Öffnung der Symbole angedeutet. Wir erhalten damit neu

Zahl	\cong	Zeichen	\cong	Objekt
1	\cong	1.	\cong	\square
2	\cong	2.	\cong	\sqsubset
3	\cong	3.	\cong	—.

Wir können damit, entsprechend dem von Bense (1975, S. 37) benutzten -Verfahren, Matrizen durch kartesische Produkte zu konstruieren, drei miteinander isomorphe Matrizen, eine Zahlenmatrix, eine Zeichenmatrix und eine Objektmatrix, konstruieren.

	1	2	3	\cong	.1	.2	.3	\cong	\square	\sqsubset	—
1	11	12	13		1.1	1.2	1.3		\square	$\square\square$	$\square\sqsubset$
2	21	22	23		2.1	2.2	2.3		$\sqsubset\square$	$\sqsubset\sqsubset$	$\sqsubset—$
3	31	32	33		3.1	3.2	3.3		— \square	— \sqsubset	——

Da die vorliegende Arbeit eine Ergänzung zu meinem Buch „The Theory of the Night“ (Toth 2016) ist, führen wir für präsemiotische Dualsysteme als zusätzliche Kategorie für die Nullheit das Symbol \emptyset ein. (Die weiteren theoretischen Voraussetzungen entnehme man dem Einführungskapitel von Toth 2016).

I. Handlungsschemata der $2 \cdot 24$ triadischen semiotischen Partialrelationen

1. Präsemiotisches Dualsystem $(\emptyset \sqsupset \sqsubset \neg) \times (\neg \sqsubset \sqsupset \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \quad \left. \quad \right\} \text{Input: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \quad \left. \quad \right\} \text{Input: } I = sS$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

Input: $O = oO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

Input: $I = sS$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

2. Präsemiotisches Dualsystem $(\emptyset \square \square \sqcup) \times (\sqcup \square \square \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: M =oS}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\square) \end{array} \right. \left. \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \\ \text{ } \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \\ \text{ } \\ (\square) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\emptyset) \end{array} \right. \left. \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \\ \text{ } \\ (\emptyset) \end{array} \right\}$$

Input: $O = oO$

$$\left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\emptyset) \end{array} \right. \times \left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right. \left. \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right\}$$

Input: $I = sS$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\square) \end{array} \right. \left. \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\emptyset) \end{array} \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\sqcup) \\ \lambda \gg (\square) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\square) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\sqsubset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\sqcup) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\sqcup) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \lambda \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \lambda \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\emptyset) \\ (\sqcup) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \lambda \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\sqcup) \\ \lambda \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \lambda \gg (\emptyset) \\ (\sqcup) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

3. Präsemiotisches Dualsystem $(\emptyset \square \square \square) \times (\square \square \square \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $O = oO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $I = sS$

$$\left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \lambda \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \lambda \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\begin{array}{c}
 \left(\begin{array}{c} (\square) \\ \sqcap \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \sqcap \gg (\emptyset) \\ (\square) \end{array} \right) \\
 \left(\begin{array}{c} (\square) \\ \sqcap \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \sqcap \gg (\emptyset) \\ (\square) \end{array} \right)
 \end{array}
 \qquad \text{Input: } O = oO$$

4. Präsemiotisches Dualsystem ($\emptyset \square \square \sqcup$) \times ($\sqcup \square \square \emptyset$)

Qualitatives Handeln ($Q = sO$)

$$\begin{array}{c}
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right)
 \end{array}
 \quad \text{Input: } O = oO$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\square) \end{array} \right. \left. \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \\ \text{ } \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\emptyset) \\ \text{ } \\ (\emptyset) \end{array} \right. \left. \begin{array}{c} (\emptyset) \\ \text{ } \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \end{array} \right. \times \left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right. \left. \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right\}$$

Input: $O = oO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right. \times \left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right. \left. \begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\emptyset) \end{array} \right. \times \left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right. \left. \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right\}$$

Input: $I = sS$

$$\left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right. \times \left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right. \left. \begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \end{array} \right. \left. \begin{array}{c} (\sqcup) \\ \text{ } \\ (\square) \end{array} \right\}$$

Input: $Q = sO$

$$\left\{ \begin{array}{c} (\emptyset) \\ \text{ } \\ (\sqcup) \end{array} \right. \times \left\{ \begin{array}{c} (\sqcup) \\ \text{ } \\ (\emptyset) \end{array} \right. \left. \begin{array}{c} (\sqcup) \\ \text{ } \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\sqcup) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\sqcup) \end{array} \right)$$

$$\begin{array}{c}
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\
 \left(\begin{array}{c} (\sqcup) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \text{ } \\ \text{ } \end{array} \right)
 \end{array}
 \qquad \text{Input: } O = oO$$

5. Präsemiotisches Dualsystem (\emptyset □ □ □) \times (□ □ □ \emptyset)

Qualitatives Handeln ($Q = sO$)

$$\begin{array}{c}
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ \text{ } \end{array} \right) \\[10pt]
 \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ \text{ } \end{array} \right)
 \end{array}
 \quad \text{Input: } O = oO$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } Q = sO$$

$$\left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \right\} \text{Input: } I = sS$$

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \right\} \text{Input: } Q = sO$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

6. Präsemiotisches Dualsystem $(\emptyset \square \emptyset \sqsubset) \times (\sqsubset \emptyset \square \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } Q = sO$$

$$\left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \quad \right\} \text{Input: } O = oO$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \left. \quad \left(\begin{array}{c} (\emptyset) \\ \text{ } \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{ } \\ (\emptyset) \end{array} \right) \quad \right\} \text{Input: } Q = sO$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \left. \right\}$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \left. \right\}$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

7. Präsemiotisches Dualsystem $(\emptyset - \square \sqcup) \times (\sqcup \square - \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcup) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\sqcup) \end{array} \right) \quad \left. \quad \right\}$$

Input: $O = oO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\sqcup) \end{array} \right) \quad \left. \quad \right\}$$

Input: $I = sS$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqcup) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqcup) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

8. Präsemiotisches Dualsystem $(\emptyset - \square \sqcap) \times (\sqcap \square - \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \quad \text{Input: } I = sS$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

9. Präsemiotisches Dualsystem $(\emptyset - \emptyset \sqcap) \times (\sqcap \emptyset - \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqcap) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \quad \left. \quad \right\}$$

Input: $O = oO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right) \quad \left. \quad \right\}$$

Input: $I = sS$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right) \quad \left. \quad \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right) \times \left(\begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

10. Präsemiotisches Dualsystem $(\emptyset - \emptyset \square) \times (\square \emptyset - \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\}$$

Input: $Q = sO$

Input: $O = oO$

Input: $I = sS$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

11. Präsemiotisches Dualsystem $(\square - \square \sqcup) \times (\sqcup \square - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\square) \\ (\square) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\square) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \text{~} \gg (\square) \\ (\sqcup) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\neg) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\sqcup) \end{array} \right\} \quad \text{Input: } I = sS$$

$$\left\{ \begin{array}{c} (\neg) \\ \text{~} \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\square) \\ (\neg) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\neg) \\ (\square) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \text{~} \gg (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ \text{~} \gg (\neg) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\sqcup) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \text{A} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\sqcup) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\sqcup) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

12. Präsemiotisches Dualsystem $(\square - \square \square) \times (\square \square - \square)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Input: I = sS

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right\}$$

Input: $Q = sO$

Input: $O = oO$

Input: $I = sS$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\neg) \end{array} \right\}$$

Input: $Q = sO$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

13. Präsemiotisches Dualsystem $(\square - \emptyset \sqsubset) \times (\sqsubset \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\sqsubset) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } I = sS$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

14. Präsemiotisches Dualsystem $(\square - \emptyset \square) \times (\square \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

15. Präsemiotisches Dualsystem $(\square - \emptyset \square) \times (\square \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\sqsubset) \end{array} \right\} \quad \text{Input: } I = sS$$

$$\left\{ \begin{array}{c} (\neg) \\ \wedge \gg (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ \wedge \gg (\emptyset) \\ (\neg) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\sqsubset) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqsubset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \left. \right\}$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\emptyset) \end{array} \right)$$

Input: I = sS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\neg) \\ (\square) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: Q = sO

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\neg) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\neg) \end{array} \right)$$

Input: M = oS

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\emptyset) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ \wedge \gg (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ \wedge \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Input: O = oO

II. Handlungsschemata der $2 \cdot 24$ tetradischen semiotischen Partialrelationen

1. Präsemiotisches Dualsystem $(\emptyset \square \square -) \times (- \square \square \emptyset)$

Qualitatives Handeln (Q = sO)

$$\left(\begin{array}{c} (\square) \gg (\emptyset) \vee (-) \\ (\square) \gg (\square) \end{array} \right) \times \left(\begin{array}{c} (-) \gg (\square) \vee (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Regulativ:
M = oS

$$\left(\begin{array}{c} (\square) \gg (\square) \vee (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (-) \gg (\emptyset) \vee (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\emptyset) \vee (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (-) \gg (\square) \vee (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

Regulativ:
O = oO

$$\left(\begin{array}{c} (\square) \gg (\square) \vee (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (-) \gg (\emptyset) \vee (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
I = sS

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Mediales Handeln (M = oS)

$$\left(\begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Regulativ:
Q = sO

$$\left(\begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right) \quad \left. \right\}$$

Regulativ:
O = oO

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
I = sS

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

Objektales Handeln (O = oO)

$$\left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
Q = sO

$$\left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
M = oS

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
I = sS

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

Interpretatives Handeln ($I = ss$)

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (\square) & \\ (-) & \gg & \gamma \succ (\emptyset) \\ & (\square) & \end{array} \right) \times \left(\begin{array}{ccc} & (\square) & \\ (\emptyset) & \gg & \gamma \succ (-) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (\square) & \\ (-) & \gg & \gamma \succ (\emptyset) \\ & (\square) & \end{array} \right) \times \left(\begin{array}{ccc} & (\square) & \\ (\emptyset) & \gg & \gamma \succ (-) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (-) & \\ (\square) & \gg & \gamma \succ (\emptyset) \\ & (\square) & \end{array} \right) \times \left(\begin{array}{ccc} & (\square) & \\ (\emptyset) & \gg & \gamma \succ (\square) \\ & (-) & \end{array} \right) \end{array} \right\}$$

Regulativ:
 $M = oS$

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\emptyset) \\ & (-) & \end{array} \right) \times \left(\begin{array}{ccc} & (-) & \\ (\emptyset) & \gg & \gamma \succ (\square) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (-) & \\ (\square) & \gg & \gamma \succ (\emptyset) \\ & (\square) & \end{array} \right) \times \left(\begin{array}{ccc} & (\square) & \\ (\emptyset) & \gg & \gamma \succ (\square) \\ & (-) & \end{array} \right) \end{array} \right\}$$

Regulativ:
 $O = oO$

$$\left\{ \begin{array}{c} \left(\begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\emptyset) \\ & (-) & \end{array} \right) \times \left(\begin{array}{ccc} & (-) & \\ (\emptyset) & \gg & \gamma \succ (\square) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

2. Präsemiotisches Dualsystem $(\emptyset \sqsubset \sqsubseteq \sqcup) \times (\sqcup \sqsubset \sqsubseteq \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\sqsubseteq) \\ (\sqsubset) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ (\sqcup) \end{array} \succ \begin{array}{c} (\sqcup) \\ (\sqsubseteq) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ (\emptyset) \end{array} \succ \begin{array}{c} (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $M = oS$

$$\left(\begin{array}{c} (\sqsubseteq) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ (\sqcup) \end{array} \succ \begin{array}{c} (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ (\square) \end{array} \succ \begin{array}{c} (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (\square) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ (\sqcup) \end{array} \succ \begin{array}{c} (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ (\emptyset) \end{array} \succ \begin{array}{c} (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\emptyset) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ (\sqcup) \end{array} \succ \begin{array}{c} (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\sqsubseteq) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ (\emptyset) \end{array} \succ \begin{array}{c} (\emptyset) \\ (\sqcup) \end{array} \right) \quad \left. \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\emptyset) \\ \gamma \\ \succ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ \succ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \\ (\emptyset) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\emptyset) \end{array} \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\emptyset) \\ (\square) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\square) \\ (\square) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right\}$$

Regulativ:
 $M = oS$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \left. \begin{array}{c} (\square) \\ (\square) \end{array} \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \left. \begin{array}{c} (\square) \\ (\square) \end{array} \right\}$$

Interpretatives Handeln ($I = sS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\square) \\ (\square) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \begin{array}{c} (\square) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right)$$

3. Präsemiotisches Dualsystem $(\emptyset \square \square \square) \times (\square \square \square \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
I = sS

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Regulativ:
Q = sO

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
M = oS

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Regulativ:
I = sS

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Interpretatives Handeln (I = ssS)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

4. Präsemiotisches Dualsystem $(\emptyset \square \square \sqcup) \times (\sqcup \square \square \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \emptyset \\ \square \gg \gamma \succ \sqcup \\ \square \end{array} \right) \times \left(\begin{array}{c} \square \\ \sqcup \gg \gamma \succ \square \\ \emptyset \end{array} \right) \\ \left(\begin{array}{c} \square \\ \square \gg \gamma \succ \sqcup \\ \emptyset \end{array} \right) \times \left(\begin{array}{c} \emptyset \\ \sqcup \gg \gamma \succ \square \\ \square \end{array} \right) \\ \left(\begin{array}{c} \emptyset \\ \square \gg \gamma \succ \sqcup \\ \square \end{array} \right) \times \left(\begin{array}{c} \square \\ \sqcup \gg \gamma \succ \square \\ \emptyset \end{array} \right) \\ \left(\begin{array}{c} \square \\ \square \gg \gamma \succ \sqcup \\ \emptyset \end{array} \right) \times \left(\begin{array}{c} \emptyset \\ \sqcup \gg \gamma \succ \square \\ \square \end{array} \right) \\ \left(\begin{array}{c} \emptyset \\ \emptyset \gg \gamma \succ \sqcup \\ \square \end{array} \right) \times \left(\begin{array}{c} \square \\ \sqcup \gg \gamma \succ \emptyset \\ \square \end{array} \right) \\ \left(\begin{array}{c} \emptyset \\ \emptyset \gg \gamma \succ \sqcup \\ \emptyset \end{array} \right) \times \left(\begin{array}{c} \emptyset \\ \sqcup \gg \gamma \succ \emptyset \\ \square \end{array} \right) \end{array} \right\}$$

Regulativ:
 $M = oS$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \emptyset \\ \sqcup \gg \gamma \succ \square \\ \square \end{array} \right) \times \left(\begin{array}{c} \square \\ \square \gg \gamma \succ \sqcup \\ \emptyset \end{array} \right) \\ \left(\begin{array}{c} \emptyset \\ \sqcup \gg \gamma \succ \square \\ \emptyset \end{array} \right) \times \left(\begin{array}{c} \emptyset \\ \square \gg \gamma \succ \sqcup \\ \square \end{array} \right) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\emptyset) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} = \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{ccccc} (\sqcup) & \gg & (\square) & & \\ & & \succ & & \\ & & (\emptyset) & & \\ & & & (\square) & \\ & & & & (\square) \end{array} \right) \times \left(\begin{array}{ccccc} (\emptyset) & \gg & (\square) & & \\ & & \succ & & \\ & & (\sqcup) & & \\ & & & (\square) & \\ & & & & (\square) \end{array} \right) \left. \right\} \quad \text{Regulativ: } \Omega \equiv s\Omega$$

$$\left(\begin{array}{c} (\sqcup) \quad \gg \quad (\square) \\ (\sqcup) \quad \gg \quad (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \quad \gg \quad (\square) \\ (\emptyset) \quad \gg \quad (\square) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \gg \vee \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg \vee \succ (\square) \\ (\square) \end{array} \right) \quad \text{Regulativ:}$$

$$\left(\begin{array}{ccccc} (\square) & \gg & (\square) & \succ & (\emptyset) \\ & & (\sqcup) & & \end{array} \right) \times \left(\begin{array}{ccccc} (\emptyset) & \gg & (\sqcup) & \succ & (\square) \\ & & (\square) & & \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\square) \\ (\sqcup) \end{array} \right) \quad \text{Regulativ: } \left. \begin{array}{c} \square \\ \forall \\ \emptyset \\ \sqcup \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg (\emptyset) \\ (\square) \gg (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\sqcup) \\ (\emptyset) \gg (\square) \\ (\emptyset) \gg (\square) \end{array} \right)$$

5. Präsemiotisches Dualsystem $(\emptyset \square \square \sqsubset) \times (\sqsubset \square \square \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \emptyset \\ (\square) \gg \gamma \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqsubset) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqsubset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \\ \\ \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqsubset) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqsubset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \\ \\ \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqsubset) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\sqsubset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqsubset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \end{array} \right\}$$

Regulativ:
 $M = oS$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \emptyset \\ (\sqsubset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqsubset) \\ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} (\sqsubset) \\ (\sqsubset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\sqsubset) \\ (\square) \end{array} \right) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
I = sS

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
Q = sO

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
M = oS

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
O = oO

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

6. Präsemiotisches Dualsystem $(\emptyset \sqcap \emptyset \sqcup) \times (\sqcap \emptyset \sqcap \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \emptyset \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcap) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} \emptyset \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \times \left(\begin{array}{c} (\sqcap) \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \emptyset \\ \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} \emptyset \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \times \left(\begin{array}{c} (\sqcap) \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \emptyset \\ \gamma \\ \gamma \succ (\square) \end{array} \right) \\ \\ \left(\begin{array}{c} \emptyset \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \times \left(\begin{array}{c} (\sqcap) \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \emptyset \\ \gamma \\ \gamma \succ (\square) \end{array} \right) \\ \\ \left(\begin{array}{c} \emptyset \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqcap) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \\ \\ \left(\begin{array}{c} \emptyset \\ (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\sqcap) \\ (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \emptyset \\ \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \end{array} \right\}$$

Regulativ:
 $M = oS$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} \left(\begin{array}{c} \sqcap \\ (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \\ (\sqcap) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \\ \\ \left(\begin{array}{c} \sqcap \\ (\emptyset) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \\ (\sqcap) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \\ \gamma \succ (\sqcap) \end{array} \right) \end{array} \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \gg (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \gg (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\emptyset) \gg (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\square) \gg \gamma \succ (\emptyset) \\ (\square) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} (\text{sS}) \\ (\text{oO}) \end{array} \right\}$$

Regulativ:
I = sS

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right)$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} (\emptyset) \\ (\square) \end{array} \right\}$$

Regulativ:
Q = sO

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} (\square) \\ (\emptyset) \end{array} \right\}$$

Regulativ:
M = oS

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} (\emptyset) \\ (\square) \end{array} \right\}$$

Regulativ:
O = oO

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} (\square) \\ (\emptyset) \end{array} \right\}$$

7. Präsemiotisches Dualsystem $(\emptyset — \square \sqcup) \times (\sqcup \square — \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqcup) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\sqcup) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\sqcup) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } I = sS$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\emptyset) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} (\neg) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\neg) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\sqcup) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
 $O = oO$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
 $I = sS$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \quad \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\emptyset) \\ (\sqcup) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\sqcup) \\ (\emptyset) \end{array} \right\} \quad \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left\{ \begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right\} \quad \left. \right\}$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = ss)

$$\left\{ \begin{array}{c} (\neg) \\ (\sqcup) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\sqcup) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{l} (\sqcup) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{l} (\text{oO}) \\ (\text{oS}) \gg \gamma \succ (\text{sO}) \\ (\text{sS}) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

$$\left\{ \begin{array}{l} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{l} (\sqcup) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{M = oS} \end{array} \right\}$$

8. Präsemiotisches Dualsystem $(\emptyset - \square \sqcap) \times (\sqcap \square - \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left\{ \begin{array}{l} (\emptyset) \\ (\square) \gg \gamma \succ (\sqcap) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{l} (-) \\ (\sqcap) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{M = oS} \end{array} \right\}$$

$$\left\{ \begin{array}{l} (-) \\ (\square) \gg \gamma \succ (\sqcap) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{l} (\emptyset) \\ (\sqcap) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

$$\left\{ \begin{array}{l} (\emptyset) \\ (-) \gg \gamma \succ (\sqcap) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{l} (\square) \\ (\sqcap) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

$$\left\{ \begin{array}{l} (\square) \\ (-) \gg \gamma \succ (\sqcap) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{l} (\emptyset) \\ (\sqcap) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{I = sS} \end{array} \right\}$$

$$\left\{ \begin{array}{l} (-) \\ (\emptyset) \gg \gamma \succ (\sqcap) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{l} (\square) \\ (\sqcap) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{I = sS} \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left\{ \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (\neg) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (\neg) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\square) \\ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\neg) \\ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\square) \\ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\neg) \\ (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \\ (\neg) \end{array} \right\}$$

Objektales Handeln ($O = oO$)

$$\left\{ \begin{array}{c} (\square) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (\neg) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \\ (\square) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\neg) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\neg) \gg (\emptyset) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \gg (\emptyset) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\neg) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\square) \\ (\neg) \end{array} \right) \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\neg) \\ (\emptyset) \gg \forall \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\emptyset) \\ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\neg) \\ (\emptyset) \gg \forall \succ (\square) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \gg (\square) \\ (\emptyset) \gg \forall \succ (\square) \\ (\neg) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

9. Präsemiotisches Dualsystem $(\emptyset - \emptyset \square) \times (\square \emptyset - \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\neg) \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\neg) \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\emptyset) \end{array} \right) \quad \left. \right\} \text{Interpretatives Handeln (I = ssS)}$$

$$\left(\begin{array}{c} (\neg) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \succ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\neg) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} (\neg) \\ \gamma \succ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\neg) \\ \gamma \succ (\emptyset) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

10. Präsemiotisches Dualsystem $(\emptyset - \emptyset \square) \times (\square \emptyset - \emptyset)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (-) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (-) \\ (\emptyset) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (-) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \\ (-) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\emptyset) \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (-) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \\ (\emptyset) \end{array} \gg \gamma \succ (-) \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \\ (\emptyset) \end{array} \gg \gamma \succ (\square) \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\neg) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } Q = sO$$

Interpretatives Handeln (I = sS)

$$\left(\begin{array}{c} (\neg) \\ (\emptyset) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\gamma) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\neg) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\square) \\ (\gamma) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\neg) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\gamma) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \end{array} \gg \begin{array}{c} \gamma \\ \gamma \succ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \end{array} \gg \begin{array}{c} (\emptyset) \\ (\gamma) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

11. Präsemiotisches Dualsystem $(\square - \square \sqcup) \times (\sqcup \square - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\neg) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (-) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = oO$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ \square) \\ (\sqcup) \end{array} \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right) \times \left(\begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\sqcup) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\sqcup) \\ (\neg) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg (\sqcup) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\neg) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg (\sqcup) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\sqcup) \gg (\neg) \\ (\sqcup) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\sqcup) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\sqcup) \gg (\square) \\ (\sqcup) \gg \forall \succ (\neg) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\sqcup) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\sqcup) \\ (\square) \gg \forall \succ (\neg) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\sqcup) \\ (\sqcup) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\neg) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \gg (\square) \\ (\neg) \gg \forall \succ (\sqcup) \\ (\sqcup) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\sqcup) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\sqcup) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\sqcup) \end{array} \right\} \times \left\{ \begin{array}{c} (\sqcup) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

12. Präsemiotisches Dualsystem $(\square - \square \square) \times (\square \square - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

$$\left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\neg) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = ssS)

$$\left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \gg (\neg) \\ (\square) \gg \forall \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \forall \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

13. Präsemiotisches Dualsystem $(\square - \emptyset \square) \times (\square \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (-) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (-) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = ss)

$$\left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

14. Präsemiotisches Dualsystem $(\square - \emptyset \square) \times (\square \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right)$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $O = oO$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\}$$

Regulativ:
 $I = sS$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Regulativ:
 $Q = sO$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right\} \times \left\{ \begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (oS) \\ (-) \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

15. Präsemiotisches Dualsystem $(\square - \emptyset \square) \times (\square \emptyset - \square)$

Qualitatives Handeln ($Q = sO$)

$$\left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ($M = oS$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (-) \end{array} \right) \times \left(\begin{array}{c} (-) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left(\begin{array}{c} (-) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (-) \end{array} \right) \left. \right\}$$

Objektales Handeln ($O = oO$)

$$\left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \left. \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\neg) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\neg) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\neg) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\neg) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = ss)

$$\left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \times \left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\neg) \end{array} \right\} \times \left\{ \begin{array}{c} (\neg) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\neg) \\ (\emptyset) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\emptyset) \\ (\neg) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left(\begin{array}{c} (\square) \\ (-) \gg \gamma \succ (\square) \\ (\emptyset) \end{array} \right) \times \left(\begin{array}{c} (\emptyset) \\ (\square) \gg \gamma \succ (-) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left(\begin{array}{c} (\emptyset) \\ (-) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left(\begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (-) \\ (\emptyset) \end{array} \right) \quad \left. \right\}$$

Hiermit liegt also eine vollständige ontische Grammatik von Handlungsanweisungen vor. Jeder qualitative Objektbezug kann durch eine bestimmte Kombination der übrigen semiotischen Qualitäten im Rahmen der qualitativen semiotischen Handlungstheorie erzeugt werden.

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