

## Qualitativ-semiotische Theorie der Nacht. (Theory of the Night, Part IX.)

Recht dunkelt mich das dunkel,  
Weil Wesenheit so heimlichst anbeginnt!  
O seltnen Glückskarfunkel!  
Es strömt, was euserlich verrinnt,  
Und wird ein Meer, was kaum ein bächlein gründt.

I dunkler, imehr lichter:  
I schwärtzer A.L.L.S., i weisser weissst sein Sam.  
Ein himmlisch Aug ist Richter:  
Kein Irdscher lebt, der was vernahm;  
Es glänzt imehr, i finster es ankam.

Ach nacht! Und nacht, di taget!  
O Tag, der nacht vernünftiger Vernunft!  
Ach Licht, das Kaine plaget,  
Und helle strahlt der Abelzunfft!  
Ich freue mich ob deiner finstern Kunfft.

Quirinus Kuhlmann (1651-1689), *Kühl-Psalter (II, 1.11)*

Bisher gibt es 8 semiotische „Nächte“ (vgl. Bibliographie), die sich um Bausteine zu einer semiotischen Theorie des Willens bemühen, wie sie vor logischem Hintergrund bereits von Günther (1937) gefordert worden war. Während jedoch eine logische Theorie des Willens aus der Negativität der Meontik entsteht, entsteht eine semiotische Theorie des Willens aus einer Semiotik, deren zugrunde liegende Logik nicht nur die Subjektposition, sondern auch die Objektposition iterieren und die für jede Einzelkontextur gültigen zwei Werte der aristotelischen Logik vermitteln kann (vgl. Toth 2016a). Inzwischen ist die Theorie dieser die polykontexturale Semiotik bei weitem überschreitenden Semiotik soweit gediehen, daß eine neue Form von qualitativen Zahlen eingeführt wurde (vgl. Toth 2016b-d), die wir semiotische Zahlen nennen. Sie werden im folgenden als Basis für dieses die vollständige "Theorie der Nacht" nach so vielen Jahren nun abschließenden Kapitels bilden.

# I. Handlungsschemata der 2 · 24 triadischen semiotischen Partialrelationen

## 1. Präsemiotisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110110]_{1,3,4} [101110]_{1,3}) \times \\ ([101110]_{3,1} [110110]_{4,3,1} [110010]_{4,1} [110001]_{4,3})$$

### Qualitative Handlung

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110110]_{4,3,1}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110110]_{1,3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110110]_{1,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110010]_{1,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ \wedge \gg ([101110]_{1,3}) & \times & \wedge \gg ([101110]_{3,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([101110]_{1,3}) \end{array} \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([101110]_{1,3}) \end{array} \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([101110]_{3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([101110]_{3,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110110]_{1,3,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110010]_{1,4}) \quad \times \\ ([101110]_{1,3}) \end{array} \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \quad \times \\ ([101110]_{1,3}) \end{array} \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101110]_{3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101110]_{3,1}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101110]_{1,3}) \end{array} \quad \times \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101110]_{1,3}) \end{array} \quad \times \quad \begin{array}{l} ([101110]_{3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101110]_{3,1}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101110]_{1,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101110]_{3,1}) \end{array}$$

## 2. Präsemitisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110110]_{1,3,4} [101010]_{1,2}) \times ([101010]_{2,1} [110110]_{4,3,1} [110010]_{4,1} [110001]_{4,3})$$

### Qualitative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101010]_{1,2}) & \times & \wedge \gg ([101010]_{2,1}) \\
([110001]_{3,4}) & & ([110010]_{4,1})
\end{array}$$

## Mediale Handlung

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([101010]_{1,2}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([101010]_{1,2}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101010]_{1,2}) & & ([110010]_{4,1}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([110010]_{1,4}) & & ([101010]_{2,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([110010]_{4,1}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([110010]_{1,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101010]_{1,2}) & & ([110001]_{4,3}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([110001]_{3,4}) & & ([101010]_{2,1})
\end{array}$$

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([110110]_{1,3,4}) & \times & \wedge \gg ([110110]_{4,3,1}) \\
([110001]_{3,4}) & & ([110010]_{4,1})
\end{array}$$

## Objektale Handlung

$$\begin{array}{ccc}
([110110]_{1,3,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([101010]_{1,2}) & & ([110110]_{4,3,1})
\end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{1,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

### 3. Präsemiotisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110110]_{1,3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110110]_{4,3,1} [110010]_{4,1} [110001]_{4,3})$$

### Qualitative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110110]_{1,3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110110]_{4,3,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110110]_{1,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

#### 4. Präsemitisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110010]_{1,4} [101010]_{1,2}) \times ([101010]_{2,1} [110010]_{4,1} [110010]_{4,1} [110001]_{4,3})$$

#### Qualitative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

### Mediale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110001]_{3,4}) & & ([110010]_{4,1})
\end{array}$$

### Objektale Handlung

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([101010]_{1,2}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([101010]_{1,2}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101010]_{1,2}) & & ([110010]_{4,1}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110010]_{1,4}) & & ([101010]_{2,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([110010]_{4,1}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110010]_{1,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110001]_{3,4}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
([101010]_{1,2}) & & ([110001]_{4,3}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110001]_{3,4}) & & ([101010]_{2,1})
\end{array}$$

### Interpretative Handlung

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([101010]_{2,1}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([101010]_{1,2}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

## 5. Präsemitisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110010]_{1,4} [101001]_{2,3}) \times ([101001]_{3,2} [110010]_{4,1} [110010]_{4,1} [110001]_{4,3})$$

## Qualitative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge [110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

## 6. Präsemitisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [110010]_{1,4} [110001]_{3,4} [101001]_{2,3}) \times \\ ([101001]_{3,2} [110001]_{4,3} [110010]_{4,1} [110001]_{4,3}) \end{array}$$

## Qualitative Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

### Objektale Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([110001]_{4,3}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([110001]_{3,4}) & & ([101001]_{3,2})
\end{array}$$

### Interpretative Handlung

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([101001]_{2,3}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([101001]_{2,3}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([110010]_{1,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110001]_{3,4}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([110001]_{4,3}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110001]_{3,4}) & & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([110010]_{4,1}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110010]_{1,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([110010]_{4,1}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110010]_{1,4}) & & ([101001]_{3,2})
\end{array}$$

### 7. Präsemitisches Dualsystem

$$\begin{array}{l}
([110001]_{3,4} [010010]_{1,2,4} [110010]_{1,4} [101010]_{1,2}) \times \\
([101010]_{2,1} [110010]_{4,1} [010010]_{4,2,1} [110001]_{4,3})
\end{array}$$

## Qualitative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([010010]_{1,2,4}) \end{array} \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([010010]_{1,2,4}) \end{array} \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}$$

## 8. Präsemiotisches Dualsystem

$$([110001]_{3,4} [010010]_{1,2,4} [110010]_{1,4} [101001]_{2,3}) \times ([101001]_{3,2} [110010]_{4,1} [010010]_{4,2,1} [110001]_{4,3})$$

### Qualitative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

### Mediale Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101001]_{2,3}) \end{array} \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101001]_{2,3}) \end{array} \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([010010]_{1,2,4}) \end{array} \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([010010]_{4,2,1}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([010010]_{1,2,4}) & & ([101001]_{3,2})
\end{array}$$

## 9. Präsemitisches Dualsystem

$$\begin{array}{l}
([110001]_{3,4} [010010]_{1,2,4} [110001]_{4,3} [101001]_{2,3}) \times \\
([101001]_{3,2} [110001]_{4,3} [010010]_{4,2,1} [110001]_{4,3})
\end{array}$$

## Qualitative Handlung

$$\begin{array}{ccc}
([010010]_{1,2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([010010]_{4,2,1}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([010010]_{1,2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([010010]_{4,2,1}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([010010]_{1,2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([010010]_{1,2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([010010]_{4,2,1})
\end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101001]_{2,3}) \end{array} \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([101001]_{2,3}) \end{array} \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \quad \times \\ ([110001]_{3,4}) \end{array} \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{lcl}
([110001]_{3,4}) & & ([010010]_{1,2,4}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([010010]_{4,2,1}) & & ([101001]_{2,3})
\end{array}$$

$$\begin{array}{lcl}
([101001]_{2,3}) & & ([010010]_{4,2,1}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([010010]_{1,2,4}) & & ([101001]_{3,2})
\end{array}$$

## 10. Präsemiotisches Dualsystem

$$\begin{array}{l}
([110001]_{3,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times \\
([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [110001]_{4,3})
\end{array}$$

## Qualitative Handlung

$$\begin{array}{lcl}
([010001]_{2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{lcl}
([110001]_{3,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{lcl}
([110001]_{3,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([010001]_{2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{lcl}
([110001]_{3,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([010001]_{2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{lcl}
([110001]_{3,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([010001]_{2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([101001]_{2,3}) & \times & \wedge \gg ([101001]_{3,2}) \\
([110001]_{3,4}) & & ([010001]_{4,2})
\end{array}$$

### Mediale Handlung

$$\begin{array}{ccc}
([010001]_{2,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([101001]_{2,3}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([101001]_{2,3}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([010001]_{4,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([010001]_{2,4}) & & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([010001]_{2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([110001]_{4,3}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110001]_{3,4}) & & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
([010001]_{2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([110001]_{3,4}) & \times & \wedge \gg ([110001]_{4,3}) \\
([110001]_{3,4}) & & ([010001]_{4,2})
\end{array}$$

### Objektale Handlung

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([010001]_{2,4}) & \times & \wedge \gg ([010001]_{4,2}) \\
([101001]_{2,3}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

## 11. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010010]_{1,2,4} [110010]_{1,4} [101010]_{1,2}) \times ([101010]_{2,1} [110010]_{4,1} [010010]_{4,2,1} [010001]_{4,2})$$

### Qualitative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101010]_{1,2}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \quad \times \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([110010]_{1,4}) \end{array} \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([010001]_{2,4}) \end{array} \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010010]_{1,2,4}) \quad \times \\ ([010001]_{2,4}) \end{array} \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{2,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010001]_{2,4}) \quad \times \\ ([101010]_{1,2}) \end{array} \quad \begin{array}{l} ([101010]_{2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101010]_{1,2}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101010]_{2,1}) \end{array}$$

## 12. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010010]_{1,2,4} [110010]_{1,4} [101001]_{2,3}) \times ([101001]_{3,2} [110010]_{4,1} [010010]_{4,2,1} [010001]_{4,2})$$

### Qualitative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{1,2,}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

### Mediale Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110010]_{4,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110010]_{1,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{lcl}
([010010]_{1,2,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([110010]_{1,4}) & \times & \wedge \gg ([110010]_{4,1}) \\
([010001]_{2,4}) & & ([010010]_{4,2,1})
\end{array}$$

## Objektale Handlung

$$\begin{array}{lcl}
([110010]_{1,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([101001]_{2,3}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{lcl}
([010001]_{2,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([101001]_{2,3}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{lcl}
([101001]_{2,3}) & & ([110010]_{4,1}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([110010]_{1,4}) & & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{lcl}
([010001]_{2,4}) & & ([110010]_{4,1}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([110010]_{1,4}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{lcl}
([110010]_{1,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([010001]_{2,4}) & & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{lcl}
([101001]_{2,3}) & & ([010001]_{4,2}) \\
\wedge \gg ([010010]_{1,2,4}) & \times & \wedge \gg ([010010]_{4,2,1}) \\
([010001]_{2,4}) & & ([101001]_{3,2})
\end{array}$$

## Interpretative Handlung

$$\begin{array}{lcl}
([010010]_{1,2,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([010001]_{2,4}) & \times & \wedge \gg ([010001]_{4,2}) \\
([101001]_{2,3}) & & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{l} ([110010]_{4,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110010]_{1,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

### 13. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010010]_{1,2,4} [110001]_{3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110001]_{4,3} [010010]_{4,2,1} [010001]_{4,2})$$

### Qualitative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010010]_{1,2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

## 14. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [010001]_{4,2})$$

## Qualitative Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \\ ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \\ ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

## Objektale Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

## 15. Präsemiotisches Dualsystem

$$([001001]_{2,3,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [001001]_{4,3,2})$$

## Qualitative Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([001001]_{2,3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([101001]_{3,2}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

## Mediale Handlung

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{l} ([001001]_{2,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([001001]_{2,3,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010001]_{4,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([110001]_{3,4}) \\ ([001001]_{2,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([001001]_{4,3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010001]_{2,4}) \\ \wedge \gg ([110001]_{3,4}) \\ ([001001]_{2,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([001001]_{4,3,2}) \\ \wedge \gg ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

### Objektale Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([001001]_{2,3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([001001]_{2,3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ \wedge \gg ([010001]_{4,2}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ \wedge \gg ([010001]_{2,4}) \\ ([001001]_{2,3,4}) \end{array} \quad \times \quad \begin{array}{l} ([001001]_{4,3,2}) \\ \wedge \gg ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([001001]_{4,3,2}) \\
\wedge \gg ([010001]_{2,4}) & \times & \wedge \gg ([010001]_{4,2}) \\
([001001]_{2,3,4}) & & ([101001]_{3,2})
\end{array}$$

## Interpretative Handlung

$$\begin{array}{ccc}
([010001]_{2,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([101001]_{2,3}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([101001]_{3,2}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([101001]_{2,3}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([010001]_{2,4}) & & ([110001]_{4,3}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([110001]_{3,4}) & & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([110001]_{4,3}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([110001]_{3,4}) & & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
([110001]_{3,4}) & & ([010001]_{4,2}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([010001]_{2,4}) & & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{ccc}
([101001]_{2,3}) & & ([010001]_{4,2}) \\
\wedge \gg ([001001]_{2,3,4}) & \times & \wedge \gg ([001001]_{4,3,2}) \\
([010001]_{2,4}) & & ([101001]_{3,2})
\end{array}$$

## II. Handlungsschemata der 2 · 24 tetradischen semiotischen Partialrelationen

### 1. Präsemiotisches Dualsystem

$([110001] [110010] [110110] [101110]) \times$   
 $([101110] [110110] [110010] [110001])$

### Qualitative Handlung

$$\begin{array}{ccc}
 ([110001]_{3,4}) & & ([110010]_{4,1}) \\
 ([110110]_{1,3,4}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110110]_{4,3,1}) \\
 ([110010]_{1,4}) & & ([110001]_{4,3})
 \end{array}$$

$$\begin{array}{ccc}
 ([110010]_{1,4}) & & ([110001]_{4,3}) \\
 ([110110]_{1,4,3}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110110]_{4,3,1}) \\
 ([110001]_{3,4}) & & ([110010]_{4,1})
 \end{array}$$

$$\begin{array}{ccc}
 ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\
 ([110010]_{1,4}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110010]_{4,1}) \\
 ([110110]_{1,3,4}) & & ([110001]_{4,3})
 \end{array}$$

$$\begin{array}{ccc}
 ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\
 ([110010]_{1,4}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110010]_{4,1}) \\
 ([110001]_{3,4}) & & ([110110]_{4,3,1})
 \end{array}$$

$$\begin{array}{ccc}
 ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\
 ([110001]_{3,4}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110001]_{4,3}) \\
 ([110010]_{1,4}) & & ([110110]_{4,3,1})
 \end{array}$$

$$\begin{array}{ccc}
 ([110010]_{1,4}) & & ([110110]_{4,3,1}) \\
 ([110001]_{3,4}) \gg \vee > ([101110]_{1,3}) & \times & ([101110]_{3,1}) \gg \vee > ([110001]_{4,3}) \\
 ([110110]_{1,3,4}) & & ([110010]_{4,1})
 \end{array}$$

## Mediale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([101110]_{1,3}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([101110]_{3,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([101110]_{1,3}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([101110]_{3,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101110]_{1,3}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([101110]_{3,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101110]_{3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([110010]_{4,1}) \\ ([101110]_{1,3}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101110]_{1,3}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([101110]_{3,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101110]_{3,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee \succ & ([110001]_{4,3}) \\ ([101110]_{1,3}) & & ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\ ([101110]_{1,3}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee \succ & ([101110]_{3,1}) \\ ([110110]_{1,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ ([101110]_{1,3}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee \succ & ([101110]_{3,1}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{c} ([101110]_{1,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101110]_{3,1}) \end{array} \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([101110]_{3,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \end{array} \end{array}$$

$$\begin{array}{c} ([101110]_{1,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101110]_{3,1}) \end{array} \end{array}$$

$$\begin{array}{c} ([110110]_{1,3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([101110]_{3,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \end{array} \end{array}$$

### Interpretative Handlung

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101110]_{1,3}) \gg \vee \succ ([110001]_{3,4}) \times \begin{array}{c} ([110110]_{4,3,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([101110]_{3,1}) \\ ([110010]_{4,1}) \end{array} \end{array}$$

$$\begin{array}{c} ([110110]_{1,3,4}) \\ ([101110]_{1,3}) \gg \vee \succ ([110001]_{3,4}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([101110]_{3,1}) \\ ([110110]_{4,3,1}) \end{array} \end{array}$$

$$\begin{array}{c} ([101110]_{1,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101110]_{3,1}) \end{array} \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) \times \begin{array}{c} ([101110]_{3,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \end{array} \end{array}$$

$$\begin{array}{ccc} ([101110]_{1,3}) & & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110110]_{1,3,4}) & & ([101110]_{3,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([101110]_{3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101110]_{1,3}) & & ([110110]_{4,3,1}) \end{array}$$

## 2. Präsemitisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [110010]_{1,4} [110110]_{1,3,4} [101010]_{1,2}) \times \\ ([101010]_{2,1} [110110]_{4,3,1} [110010]_{1,4} [110001]_{4,3}) \end{array}$$

## Qualitative Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110110]_{1,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([110110]_{1,3,4}) \end{array} & \times & \begin{array}{c} ([110110]_{4,3,1}) \\ ([101010]_{2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}
\end{array}$$

### Mediale Handlung

$$\begin{array}{ccc}
\begin{array}{c} ([110001]_{3,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([110010]_{1,4}) \end{array} & \times & \begin{array}{c} ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([110010]_{1,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{c} ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([101010]_{1,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{c} ([110001]_{4,3}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([101010]_{1,2}) \end{array} & \times & \begin{array}{c} ([101010]_{2,1}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{4,3}) \end{array}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([101010]_{1,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([110010]_{1,4}) \end{array} & \times & \begin{array}{c} ([110010]_{4,1}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101010]_{2,1}) \end{array}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \\ ([101010]_{1,2}) \end{array} & \times & \begin{array}{c} ([101010]_{2,1}) \\ ([110110]_{4,3,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}
\end{array}$$

### Objektale Handlung

$$\begin{array}{ccc}
\begin{array}{c} ([110001]_{3,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \\ ([110110]_{1,3,4}) \end{array} & \times & \begin{array}{c} ([110110]_{4,3,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}
\end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110001]_{4,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110001]_{3,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101010]_{2,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101010]_{1,2}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110110]_{4,3,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110110]_{1,3,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([101010]_{2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101010]_{1,2}) & & ([110110]_{4,3,1}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110110]_{4,3,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101010]_{2,1}) \\ ([110110]_{1,3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110010]_{4,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101010]_{2,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110110]_{1,3,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([101010]_{2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([110110]_{4,3,1}) \end{array}$$

### 3. Präsemiotisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [110010]_{1,4} [110110]_{1,3,4} [101001]_{2,3}) \times \\ ([101001]_{3,2} [110110]_{4,3,1} [110010]_{4,1} [110001]_{4,3}) \end{array}$$

### Qualitative Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee \succ & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee \succ & ([110110]_{4,3,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([110110]_{1,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110110]_{4,3,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([110001]_{4,3}) \\ ([110110]_{1,3,4}) & & ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([110010]_{4,1}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([110110]_{1,3,4}) \times & ([110110]_{4,3,1}) \gg \vee & \succ ([110001]_{4,3}) \\ ([101001]_{2,3}) & & ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110110]_{4,3,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110110]_{1,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110110]_{4,3,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110110]_{1,3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{2,3}) & & ([110110]_{4,3,1}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110110]_{4,3,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110110]_{1,3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([110010]_{4,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{1,4}) & & ([110110]_{4,3,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110010]_{4,1}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([110010]_{1,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101001]_{3,2}) \\ ([110110]_{1,3,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110110]_{4,3,1}) \\ ([101001]_{2,3}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110110]_{4,3,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110110]_{1,3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110110]_{1,3,4}) & & ([101001]_{3,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{2,3}) & & ([110110]_{4,3,1}) \end{array}$$

#### 4. Präsemitotisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [110010]_{1,4} [110010]_{1,4} [101010]_{1,2}) \times \\ ([101010]_{2,1} [110010]_{4,1} [110010]_{4,1} [110001]_{4,3}) \end{array}$$

#### Qualitative Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) \times \begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110010]_{4,1})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110001]_{4,3})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110001]_{4,3})$$

### Mediale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array} \end{array} \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array} \gg \vee \succ ([101010]_{2,1})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([101010]_{2,1})$$

$$\begin{array}{c} ([101010]_{1,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110010]_{4,1})$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110010]_{4,1})$$

$$\begin{array}{c} ([101010]_{1,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110001]_{4,3})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times \begin{array}{c} ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array} \end{array} \begin{array}{c} ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array} \gg \vee \succ ([110001]_{4,3})$$

## Objektale Handlung

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([110010]_{4,1}) & & \\ ([101010]_{1,2}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([110001]_{4,3}) & & \\ ([101010]_{1,2}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([101010]_{2,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([101010]_{1,2}) & & ([110001]_{4,3}) & & \\ ([110010]_{1,4}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([101010]_{2,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([101010]_{2,1}) & & \\ ([110010]_{1,4}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([110001]_{4,3}) & & \end{array}$$

$$\begin{array}{ccccc} ([101010]_{1,2}) & & ([110010]_{4,1}) & & \\ ([110001]_{3,4}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([101010]_{2,1}) & & \\ ([110001]_{3,4}) \gg \gamma \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \gamma & \succ & ([110001]_{4,3}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) & & \end{array}$$

## Interpretative Handlung

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([110010]_{4,1}) & & \\ ([101010]_{1,2}) \gg \gamma \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \gamma & \succ & ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([110010]_{4,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([110010]_{4,1}) & & \\ ([101010]_{1,2}) \gg \gamma \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \gamma & \succ & ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([110010]_{4,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([101010]_{1,2}) & & ([110010]_{4,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([101010]_{2,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([101010]_{1,2}) & & ([110010]_{4,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([101010]_{2,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) & & \end{array}$$

## 5. Präsemitisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [110010]_{1,4} [110010]_{1,4} [101001]_{2,3}) \times \\ ([101001]_{3,2} [110010]_{4,1} [110010]_{4,1} [110001]_{3,4}) \end{array}$$

## Qualitative Handlung

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([110010]_{4,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) & & \end{array}$$

$$\begin{array}{ccccc} ([110010]_{1,4}) & & ([110001]_{4,3}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) & & \end{array}$$

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([110010]_{4,1}) & & \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee & \succ & ([110010]_{4,1}) \\ ([110010]_{1,4}) & & ([110001]_{3,4}) & & \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \\ ([110010]_{4,1}) \end{array} \succ ([110010]_{4,1})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([101001]_{3,2}) \gg \vee \\ ([110010]_{4,1}) \end{array} \succ ([110001]_{4,3})$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([101001]_{3,2}) \gg \vee \\ ([110010]_{4,1}) \end{array} \succ ([110001]_{4,3})$$

### Mediale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

### Objektale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110010]_{4,1}) \end{array}$$

## 6. Präsemitisches Dualsystem

$$([110001]_{3,4} [110010]_{1,4} [110001]_{3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110001]_{4,3} [110010]_{4,1} [110001]_{4,3})$$

## Qualitative Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{4,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{c} ([110010]_{1,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{3,4}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110010]_{1,4}) \end{array} \quad \times \quad \begin{array}{c} ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{1,4}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

## 7. Präsemitisches Dualsystem

$$([110001]_{3,4} [010010]_{1,2,4} [110010]_{1,4} [101010]_{1,2}) \times ([101010]_{2,1} [110010]_{4,1} [010010]_{4,2,1} [110001]_{4,3})$$

## Qualitative Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010010]_{1,2,4}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([110010]_{1,4}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([101010]_{2,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010010]_{1,2,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([101010]_{2,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([110010]_{1,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \end{array} \times \begin{array}{c} ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{4,1}) \end{array}$$

$$\begin{array}{c} ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101010]_{1,2}) \\ ([110010]_{1,4}) \end{array} \times \begin{array}{c} ([110010]_{4,1}) \\ ([101010]_{2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} \times \begin{array}{c} ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010010]_{1,2,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{c} ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} \times \begin{array}{c} ([101010]_{2,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([010010]_{4,2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([010010]_{1,2,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101010]_{2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101010]_{1,2}) & & ([010010]_{4,2,1}) \end{array}$$

Objektale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([101010]_{1,2}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101010]_{2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101010]_{2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110010]_{4,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010010]_{4,2,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([101010]_{2,1}) \\ ([010010]_{1,2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([010010]_{1,2,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101010]_{2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101010]_{2,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) & \times & ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) \end{array}$$

## 8. Präsemitisches Dualsystem

$$\begin{array}{l} ([110001]_{3,4} [010010]_{1,2,4} [110010]_{1,4} [101001]_{2,3}) \times \\ ([101001]_{3,2} [110010]_{4,1} [010010]_{4,2,1} [110001]_{4,3}) \end{array}$$

## Qualitative Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110010]_{4,1}) \\ ([010010]_{1,2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([010010]_{4,2,1}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([010010]_{4,2,1}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010010]_{4,2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([110001]_{4,3}) \\ ([010010]_{1,2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \times & ([101001]_{3,2}) \gg \vee & \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010010]_{4,2,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([010010]_{1,2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([010010]_{4,2,1}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([010010]_{4,2,1}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010010]_{4,2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([110001]_{4,3}) \\ ([010010]_{1,2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([110010]_{1,4}) \times & ([110010]_{4,1}) \gg \vee & \succ ([110001]_{4,3}) \\ ([101001]_{2,3}) & & ([010010]_{4,2,1}) \end{array}$$

Objektale Handlung

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([110010]_{4,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([110010]_{1,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee & \succ ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee & \succ ([110010]_{4,1}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee & \succ ([110010]_{4,1}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110010]_{4,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee & \succ ([110001]_{4,3}) \\ ([110010]_{1,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([101001]_{3,2}) \\
([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([110001]_{4,3}) \\
& ([101001]_{2,3}) & ([110010]_{4,1})
\end{array}$$

Interpretative Handlung

$$\begin{array}{ccc}
& ([010010]_{1,2,4}) & ([110010]_{4,1}) \\
([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([101001]_{3,2}) \\
& ([110010]_{1,4}) & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([010010]_{4,2,1}) \\
([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([101001]_{3,2}) \\
& ([010010]_{1,2,4}) & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
& ([101001]_{2,3}) & ([010010]_{4,2,1}) \\
([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([110010]_{4,1}) \\
& ([010010]_{1,2,4}) & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
& ([010010]_{1,2,4}) & ([101001]_{3,2}) \\
([110010]_{1,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([110010]_{4,1}) \\
& ([101001]_{2,3}) & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{ccc}
& ([101001]_{2,3}) & ([110010]_{4,1}) \\
([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([010010]_{4,2,1}) \\
& ([110010]_{1,4}) & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([101001]_{3,2}) \\
([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) & ([110001]_{4,3}) \gg \vee \succ & ([010010]_{4,2,1}) \\
& ([101001]_{2,3}) & ([110010]_{4,1})
\end{array}$$

## 9. Präsemitotisches Dualsystem

$$\begin{array}{l}
([110001]_{3,4} [010010]_{1,2,4} [110001]_{3,4} [101001]_{2,3}) \times \\
([101001]_{3,2} [110001]_{4,3} [010010]_{4,2,1} [110001]_{4,3})
\end{array}$$

## Qualitative Handlung

$$\begin{array}{lcl}
 \begin{array}{l} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} & \times & \begin{array}{l} ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \gg \gamma \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array} \\
 \begin{array}{l} ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{l} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \gamma \succ ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array} \\
 \begin{array}{l} ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{l} ([110001]_{3,4}) \\ ([101001]_{3,2}) \gg \gamma \succ ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array} \\
 \begin{array}{l} ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{l} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \gamma \succ ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array} \\
 \begin{array}{l} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \end{array} & \times & \begin{array}{l} ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \gg \gamma \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array} \\
 \begin{array}{l} ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \gg \gamma \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{l} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \gamma \succ ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}
 \end{array}$$

## Mediale Handlung

$$\begin{array}{lcl}
 \begin{array}{l} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \gamma \succ ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} & \times & \begin{array}{l} ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \gg \gamma \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array} \\
 \begin{array}{l} ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \gg \gamma \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} & \times & \begin{array}{l} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \gamma \succ ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \end{array}
 \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([010010]_{1,2,4}) \end{array} \quad \times \quad \begin{array}{l} ([010010]_{4,2,1}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

Objektive Handlung

$$\begin{array}{l} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{l} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{l} ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{l} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{l} ([101001]_{3,2}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{lcl}
& ([101001]_{2,3}) & \\
([110001]_{3,4}) \gg \vee > ([010010]_{1,2,4}) & \times & ([110001]_{4,3}) \\
& ([110001]_{3,4}) & ([110001]_{4,3}) \\
& ([110001]_{3,4}) & ([101001]_{3,2}) \\
([110001]_{3,4}) \gg \vee > ([010010]_{1,2,4}) & \times & ([010010]_{4,2,1}) \gg \vee > ([110001]_{4,3}) \\
& ([101001]_{2,3}) & ([110001]_{4,3})
\end{array}$$

## Interpretative Handlung

$$\begin{array}{lcl}
& ([010010]_{1,2,4}) & \\
([101001]_{2,3}) \gg \vee > ([110001]_{3,4}) & \times & ([110001]_{4,3}) \\
& ([110001]_{3,4}) & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{lcl}
& ([110001]_{3,4}) & \\
([101001]_{2,3}) \gg \vee > ([110001]_{3,4}) & \times & ([010010]_{4,2,1}) \\
& ([010010]_{1,2,4}) & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{lcl}
& ([101001]_{2,3}) & \\
([110001]_{3,4}) \gg \vee > ([110001]_{3,4}) & \times & ([010010]_{4,2,1}) \\
& ([010010]_{1,2,4}) & ([110001]_{4,3})
\end{array}$$

$$\begin{array}{lcl}
& ([010010]_{1,2,4}) & \\
([110001]_{3,4}) \gg \vee > ([110001]_{3,4}) & \times & ([101001]_{3,2}) \\
& ([101001]_{2,3}) & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{lcl}
& ([101001]_{2,3}) & \\
([010010]_{1,2,4}) \gg \vee > ([110001]_{3,4}) & \times & ([110001]_{4,3}) \\
& ([110001]_{3,4}) & ([101001]_{3,2})
\end{array}$$

$$\begin{array}{lcl}
& ([110001]_{3,4}) & \\
([010010]_{1,2,4}) \gg \vee > ([110001]_{3,4}) & \times & ([101001]_{3,2}) \\
& ([101001]_{2,3}) & ([110001]_{4,3})
\end{array}$$

## 10. Präsemiotisches Dualsystem

$$\begin{array}{l}
([110001]_{3,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times \\
([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [110001]_{4,3})
\end{array}$$

## Qualitative Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010010]_{1,2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010010]_{4,2,1}) \end{array}$$

## Mediale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \times \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

Objektale Handlung

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{4,3}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \times \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \times \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([110001]_{3,4}) \end{array} \times \begin{array}{c} ([110001]_{4,3}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \times \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

## 11. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010010]_{1,2,4} [110010]_{1,4} [101010]_{1,2}) \times$$

$$([101010]_{2,1} [110010]_{4,1} [010010]_{4,2,1} [010001]_{4,2})$$

### Qualitative Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([010010]_{1,2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([010001]_{4,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([010001]_{2,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110010]_{1,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010001]_{4,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([010001]_{2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010010]_{4,2,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([010010]_{1,2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110010]_{4,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([101010]_{1,2}) & \times & ([101010]_{2,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([110010]_{1,4}) & & ([010010]_{4,2,1}) \end{array}$$

### Mediale Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010010]_{4,2,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) & \times & ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([010010]_{1,2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{lcl}
\begin{array}{l} ([010010]_{1,2,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([110010]_{1,4}) \\ ([010001]_{2,4}) \end{array} & \times & \begin{array}{l} ([010001]_{4,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([010010]_{4,2,1}) \end{array} \\
\begin{array}{l} ([101010]_{1,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([010001]_{2,4}) \end{array} & \times & \begin{array}{l} ([010001]_{4,2}) \\ ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101010]_{2,1}) \end{array} \\
\begin{array}{l} ([010001]_{2,4}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} & \times & \begin{array}{l} ([101010]_{2,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([010001]_{4,2}) \end{array} \\
\begin{array}{l} ([101010]_{1,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([010010]_{1,2,4}) \end{array} & \times & \begin{array}{l} ([010010]_{4,2,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([101010]_{2,1}) \end{array} \\
\begin{array}{l} ([010010]_{1,2,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([110010]_{1,4}) \\ ([101010]_{1,2}) \end{array} & \times & \begin{array}{l} ([101010]_{2,1}) \\ ([110010]_{4,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \end{array}
\end{array}$$

## Objektale Handlung

$$\begin{array}{lcl}
\begin{array}{l} ([010001]_{2,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([110010]_{1,4}) \end{array} & \times & \begin{array}{l} ([110010]_{4,1}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([010001]_{4,2}) \end{array} \\
\begin{array}{l} ([110010]_{1,4}) \\ ([101010]_{1,2}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([010001]_{2,4}) \end{array} & \times & \begin{array}{l} ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([101010]_{2,1}) \\ ([110010]_{4,1}) \end{array} \\
\begin{array}{l} ([101010]_{1,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \\ ([010001]_{2,4}) \end{array} & \times & \begin{array}{l} ([010001]_{4,2}) \\ ([010010]_{4,2,1}) \gg \vee \succ ([110010]_{4,1}) \\ ([101010]_{2,1}) \end{array}
\end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([101010]_{2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110010]_{4,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([010001]_{4,2}) \\ ([110010]_{1,2,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101010]_{2,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([010001]_{4,2}) \\ ([101010]_{1,2}) & & ([110010]_{4,1}) \end{array}$$

Interpretative Handlung

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110010]_{4,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([101010]_{2,1}) \\ ([110010]_{1,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010010]_{4,2,1}) \\ ([101010]_{1,2}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([101010]_{2,1}) \\ ([010010]_{1,2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101010]_{2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([101010]_{1,2}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101010]_{1,2}) & & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) & & ([101010]_{2,1}) \end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([101010]_{2,1}) \\
([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([010010]_{4,2,1}) \\
& ([101010]_{1,2}) & ([110010]_{4,1})
\end{array}$$

## 12. Präsemiotisches Dualsystem

$$\begin{array}{l}
([010001]_{2,4} [010010]_{1,2,4} [110010]_{1,4} [101001]_{2,3}) \times \\
([101001]_{3,2} [110010]_{4,1} [010010]_{4,2,1} [010001]_{4,2})
\end{array}$$

### Qualitative Handlung

$$\begin{array}{ccc}
& ([010001]_{2,4}) & ([010010]_{4,2,1}) \\
([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110010]_{4,1}) \\
& ([010010]_{1,2,4}) & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{ccc}
& ([010010]_{1,2,4}) & ([010001]_{4,2}) \\
([110010]_{1,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110010]_{4,1}) \\
& ([010001]_{2,4}) & ([010010]_{4,2,1})
\end{array}$$

$$\begin{array}{ccc}
& ([010001]_{2,4}) & ([110010]_{4,1}) \\
([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010010]_{4,2,1}) \\
& ([110010]_{1,4}) & ([010001]_{4,2})
\end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([010001]_{4,2}) \\
([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010010]_{4,2,1}) \\
& ([010001]_{2,4}) & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
& ([110010]_{1,4}) & ([010010]_{4,2,1}) \\
([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\
& ([010010]_{1,2,4}) & ([110010]_{4,1})
\end{array}$$

$$\begin{array}{ccc}
& ([010010]_{1,2,4}) & ([110010]_{4,1}) \\
([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\
& ([110010]_{1,4}) & ([010010]_{4,2,1})
\end{array}$$

## Mediale Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010010]_{4,2,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([010010]_{1,2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([010001]_{4,2}) \\ ([101001]_{2,3}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{2,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010001]_{4,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([010001]_{2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101001]_{2,3}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010010]_{4,2,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([010010]_{1,2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101001]_{3,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([110010]_{1,4}) \times & & ([110010]_{4,1}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{2,3}) & & ([010010]_{4,2,1}) \end{array}$$

## Objektale Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110010]_{4,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \times & & ([010010]_{4,2,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([110010]_{1,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010001]_{4,2}) \\ ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \times & & ([010010]_{4,2,1}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010001]_{4,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([110010]_{4,1}) \\ ([010001]_{2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([101001]_{3,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([110010]_{4,1}) \\ ([101001]_{2,3}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110010]_{4,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([010001]_{4,2}) \\ ([110010]_{1,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101001]_{3,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \vee \succ & ([010001]_{4,2}) \\ ([101001]_{2,3}) & & ([110010]_{4,1}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110010]_{4,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([101001]_{3,2}) \\ ([110010]_{1,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([010010]_{4,2,1}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) & & ([110010]_{4,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010010]_{4,2,1}) \\ ([110010]_{1,4}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101001]_{3,2}) \\ ([110010]_{1,4}) \gg \vee \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee \succ & ([110010]_{4,1}) \\ ([101001]_{2,3}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110010]_{4,1}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110010]_{1,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110010]_{1,4}) & & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101001]_{2,3}) & & ([110010]_{4,1}) \end{array}$$

### 13. Präsemiotisches Dualsystem

$$([010001]_{2,4} [010010]_{1,2,4} [110001]_{3,4} [101001]_{2,3}) \times$$

$$([101001]_{3,2} [110001]_{4,3} [010010]_{4,2,1} [010001]_{4,2})$$

### Qualitative Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010010]_{4,2,1}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010010]_{1,2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([010001]_{4,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{2,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110001]_{4,3}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110001]_{3,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010001]_{4,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([010001]_{2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010010]_{4,2,1}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([010010]_{1,2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c}
 ([010010]_{1,2,4}) \\
 ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\
 ([110001]_{3,4})
 \end{array}
 \times
 \begin{array}{c}
 ([110001]_{4,3}) \\
 ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\
 ([010010]_{4,2,1})
 \end{array}$$

### Mediale Handlung

$$\begin{array}{c}
 ([010001]_{2,4}) \\
 ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\
 ([010010]_{1,2,4})
 \end{array}
 \times
 \begin{array}{c}
 ([010010]_{4,2,1}) \\
 ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\
 ([010001]_{4,2})
 \end{array}$$

$$\begin{array}{c}
 ([010010]_{1,2,4}) \\
 ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\
 ([010001]_{2,4})
 \end{array}
 \times
 \begin{array}{c}
 ([010001]_{4,2}) \\
 ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\
 ([010010]_{4,2,1})
 \end{array}$$

$$\begin{array}{c}
 ([101001]_{2,3}) \\
 ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) \\
 ([010001]_{2,4})
 \end{array}
 \times
 \begin{array}{c}
 ([010001]_{4,2}) \\
 ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\
 ([101001]_{3,2})
 \end{array}$$

$$\begin{array}{c}
 ([010001]_{2,4}) \\
 ([010010]_{1,2,4}) \gg \vee \succ ([110001]_{3,4}) \\
 ([101001]_{2,3})
 \end{array}
 \times
 \begin{array}{c}
 ([101001]_{3,2}) \\
 ([110001]_{4,3}) \gg \vee \succ ([010010]_{4,2,1}) \\
 ([010001]_{4,2})
 \end{array}$$

$$\begin{array}{c}
 ([101001]_{2,3}) \\
 ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\
 ([010010]_{1,2,4})
 \end{array}
 \times
 \begin{array}{c}
 ([010010]_{4,2,1}) \\
 ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\
 ([101001]_{3,2})
 \end{array}$$

$$\begin{array}{c}
 ([010010]_{1,2,4}) \\
 ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\
 ([101001]_{2,3})
 \end{array}
 \times
 \begin{array}{c}
 ([101001]_{3,2}) \\
 ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\
 ([010010]_{4,2,1})
 \end{array}$$

### Objektale Handlung

$$\begin{array}{c}
 ([010001]_{2,4}) \\
 ([101001]_{2,3}) \gg \vee \succ ([010010]_{1,2,4}) \\
 ([110001]_{3,4})
 \end{array}
 \times
 \begin{array}{c}
 ([110001]_{4,3}) \\
 ([010010]_{4,2,1}) \gg \vee \succ ([101001]_{3,2}) \\
 ([010001]_{4,2})
 \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010001]_{4,2}) \\ ([101001]_{2,3}) \gg \Upsilon \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \Upsilon \succ & ([101001]_{3,2}) \\ ([010001]_{2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010001]_{4,2}) \\ ([110001]_{3,4}) \gg \Upsilon \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \Upsilon \succ & ([110001]_{4,3}) \\ ([010001]_{2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \Upsilon \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \Upsilon \succ & ([110001]_{4,3}) \\ ([101001]_{2,3}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([010001]_{2,4}) \gg \Upsilon \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \Upsilon \succ & ([010001]_{4,2}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([010001]_{2,4}) \gg \Upsilon \succ ([010010]_{1,2,4}) \times & ([010010]_{4,2,1}) \gg \Upsilon \succ & ([010001]_{4,2}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

### Interpretative Handlung

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \Upsilon \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \Upsilon \succ & ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010010]_{4,2,1}) \\ ([101001]_{2,3}) \gg \Upsilon \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \Upsilon \succ & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010010]_{4,2,1}) \\ ([110001]_{3,4}) \gg \Upsilon \succ ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \Upsilon \succ & ([110001]_{4,3}) \\ ([010010]_{1,2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010010]_{1,2,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{2,3}) & & ([010010]_{4,2,1}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([010010]_{1,2,4}) \gg \vee \succ ([010001]_{2,4}) & \times & ([010001]_{4,2}) \gg \vee \succ ([010010]_{4,2,1}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

#### 14. Präsemiotisches Dualsystem

$$\begin{array}{l} ([010001]_{2,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times \\ ([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [010001]_{4,2}) \end{array}$$

#### Qualitative Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010001]_{4,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010001]_{4,2}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110001]_{4,3}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{3,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010001]_{4,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([010001]_{2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

## Mediale Handlung

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \vee \succ [110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \quad \succ ([110001]_{3,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([110001]_{4,3}) \gg \vee \succ ([010001]_{4,2}) \\ ([010001]_{4,2}) \end{array}$$

## Objektale Handlung

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{c} ([010001]_{2,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([101001]_{2,3}) \gg \vee \succ ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([101001]_{3,2}) \\ ([110001]_{4,3}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([101001]_{2,3}) \\ ([010001]_{2,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([010001]_{4,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([101001]_{3,2}) \end{array}$$

$$\begin{array}{c} ([110001]_{3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([010001]_{2,4}) \\ ([101001]_{2,3}) \end{array} \quad \times \quad \begin{array}{c} ([101001]_{3,2}) \\ ([010001]_{4,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([110001]_{4,3}) \end{array}$$

## 15. Präsemiotisches Dualsystem

$$([001001]_{2,3,4} [010001]_{2,4} [110001]_{3,4} [101001]_{2,3}) \times ([101001]_{3,2} [110001]_{4,3} [010001]_{4,2} [001001]_{4,3,2})$$

## Qualitative Handlung

$$\begin{array}{c} ([001001]_{2,3,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([010001]_{2,4}) \end{array} \quad \times \quad \begin{array}{c} ([010001]_{4,2}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{c} ([010001]_{2,4}) \\ ([110001]_{3,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([001001]_{2,3,4}) \end{array} \quad \times \quad \begin{array}{c} ([001001]_{4,3,2}) \\ ([101001]_{3,2}) \gg \vee \succ ([110001]_{4,3}) \\ ([010001]_{4,2}) \end{array}$$

$$\begin{array}{c} ([001001]_{2,3,4}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) \\ ([110001]_{3,4}) \end{array} \quad \times \quad \begin{array}{c} ([110001]_{4,3}) \\ ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([001001]_{4,3,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([010001]_{4,2}) \\ ([001001]_{2,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([010001]_{4,2}) \\ ([001001]_{2,3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([001001]_{4,3,2}) \\ ([010001]_{2,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110001]_{4,3}) \\ ([001001]_{2,3,4}) \gg \vee \succ ([101001]_{2,3}) & \times & ([101001]_{3,2}) \gg \vee \succ ([001001]_{4,3,2}) \\ ([110001]_{3,4}) & & ([010001]_{4,2}) \end{array}$$

### Mediale Handlung

$$\begin{array}{ccc} ([001001]_{2,3,4}) & & ([010001]_{4,2}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([101001]_{3,2}) \\ ([010001]_{2,4}) & & ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([010001]_{4,2}) \\ ([101001]_{2,3}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([101001]_{3,2}) \\ ([010001]_{2,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010001]_{4,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([010001]_{4,2}) \\ ([010001]_{2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([001001]_{2,3,4}) & & ([101001]_{3,2}) \\ ([010001]_{2,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([010001]_{4,2}) \\ ([101001]_{2,3}) & & ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([010001]_{4,2}) \\ ([001001]_{2,3,4}) \gg \vee \succ ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee \succ & ([001001]_{4,3,2}) \\ ([010001]_{2,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([101001]_{3,2}) \\ ([001001]_{2,3,4}) \gg \vee > ([110001]_{3,4}) \times & ([110001]_{4,3}) \gg \vee > ([001001]_{4,3,2}) \\ ([101001]_{2,3}) & & ([010001]_{4,2}) \end{array}$$

## Objektale Handlung

$$\begin{array}{ccc} ([001001]_{2,3,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([001001]_{4,3,2}) \\ ([101001]_{2,3}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([101001]_{3,2}) \\ ([001001]_{2,3,4}) & & ([110001]_{4,3}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([001001]_{4,3,2}) \\ ([110001]_{3,4}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([110001]_{4,3}) \\ ([001001]_{2,3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([001001]_{2,3,4}) & & ([101001]_{3,2}) \\ ([110001]_{3,4}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([110001]_{3,4}) \\ ([101001]_{2,3}) & & ([001001]_{4,3,2}) \end{array}$$

$$\begin{array}{ccc} ([101001]_{2,3}) & & ([110001]_{4,3}) \\ ([001001]_{2,3,4}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([001001]_{2,3,4}) \\ ([110001]_{3,4}) & & ([101001]_{3,2}) \end{array}$$

$$\begin{array}{ccc} ([110001]_{3,4}) & & ([101001]_{3,2}) \\ ([001001]_{2,3,4}) \gg \vee > ([010001]_{2,4}) \times & ([010001]_{4,2}) \gg \vee > ([001001]_{4,3,2}) \\ ([101001]_{2,3}) & & ([110001]_{4,3}) \end{array}$$

## Interpretative Handlung

$$\begin{array}{ccc} ([010001]_{2,4}) & & ([110001]_{4,3}) \\ ([101001]_{2,3}) \gg \vee > ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee > ([101001]_{3,2}) \\ ([110001]_{3,4}) & & ([010001]_{4,2}) \end{array}$$

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([010001]_{4,2}) & & \\ ([101001]_{2,3}) \gg \vee \succ ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee \succ & ([101001]_{3,2}) \\ ([010001]_{2,4}) & ([110001]_{4,3}) & \end{array}$$

$$\begin{array}{ccccc} ([101001]_{2,3}) & & ([010001]_{4,2}) & & \\ ([110001]_{3,4}) \gg \vee \succ ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee \succ & ([110001]_{4,3}) \\ ([010001]_{2,4}) & ([101001]_{3,2}) & \end{array}$$

$$\begin{array}{ccccc} ([010001]_{2,4}) & & ([101001]_{3,2}) & & \\ ([110001]_{3,4}) \gg \vee \succ ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee \succ & ([110001]_{4,3}) \\ ([101001]_{2,3}) & ([010001]_{4,2}) & \end{array}$$

$$\begin{array}{ccccc} ([101001]_{2,3}) & & ([110001]_{4,3}) & & \\ ([010001]_{2,4}) \gg \vee \succ ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee \succ & ([010001]_{4,2}) \\ ([110001]_{3,4}) & ([101001]_{3,2}) & \end{array}$$

$$\begin{array}{ccccc} ([110001]_{3,4}) & & ([101001]_{3,2}) & & \\ ([010001]_{2,4}) \gg \vee \succ ([001001]_{2,3,4}) \times & ([001001]_{4,3,2}) \gg \vee \succ & ([010001]_{4,2}) \\ ([101001]_{2,3}) & ([110001]_{4,3}) & \end{array}$$

## Literatur

Günther, Gotthard/Schelsky, Helmut, Christliche Metaphysik und das Schicksal des modernen Bewusstseins. Leipzig 1937

Kaehr, Rudolf, Quadralectic Diamonds: Fourfoldness of Beginnings. Semiotic Studies with Toth's "Theory of the Night". In: ThinkartLab (Glasgow) 2011

Toth, Alfred, Elements of a theory of the night. Parts I-VIII. In: Electronic Journal for Mathematical Semiotics, 2009-2012

Toth, Alfred, Grundlagen einer neuen Logik für die Peirce-Bense-Semiotik. In: Electronic Journal for Mathematical Semiotics, 2016a

Toth, Alfred, Grundlagen der qualitativen semiotischen Arithmetik. In: Electronic Journal for Mathematical Semiotics, 2016b

Toth, Alfred, Die zwei Basiszahl-Strukturen der semiotischen Arithmetik. In: Electronic Journal for Mathematical Semiotics, 2016c

Toth, Alfred, Redundanzfreie Systeme der qualitativen semiotischen Zahlen. In: Electronic Journal for Mathematical Semiotics, 2016d

23.8.2016