

Prof. Dr. Alfred Toth

Ein System von Diamondstrukturen

1. In Toth (2025a) waren wir ausgegangen von der Primzeichenrelation (vgl. Bense 1980)

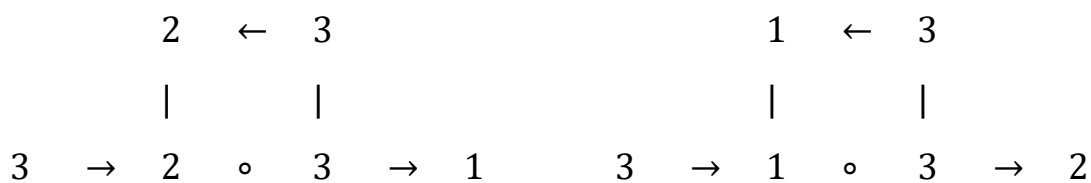
$$Z = (1, 2, 3)$$

sowie den Operationen Konversion (K) und Reflexion (R). Durch ihre Anwendung auf Z bekamen wir vier Bi-Zeichenstrukturen: $N(Z)$, $K(Z)$, $R(Z)$ und $KR(Z)$:

$N(Z)$



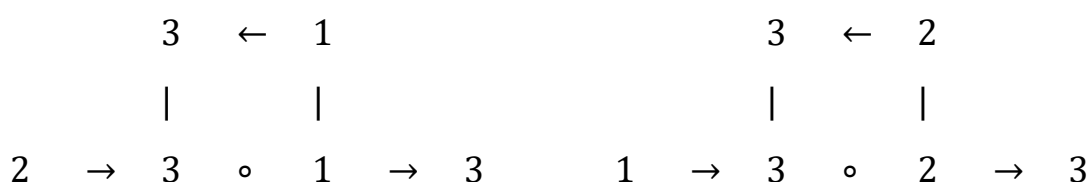
$K(Z)$



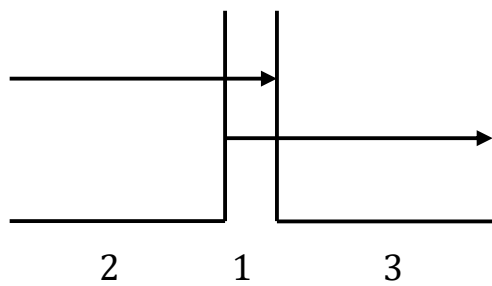
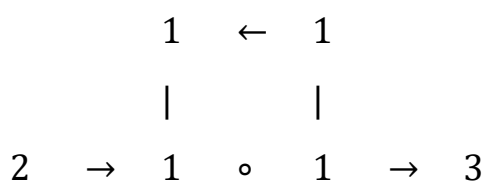
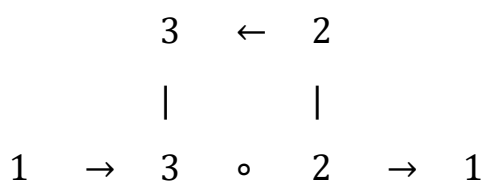
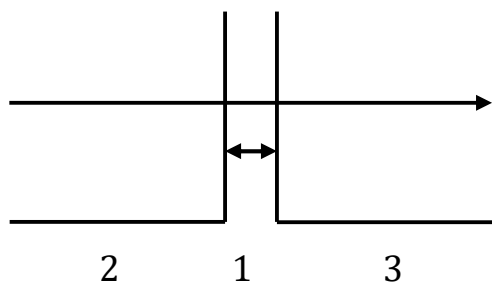
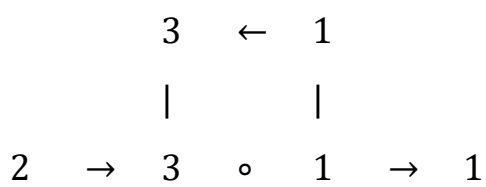
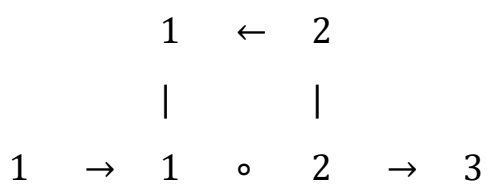
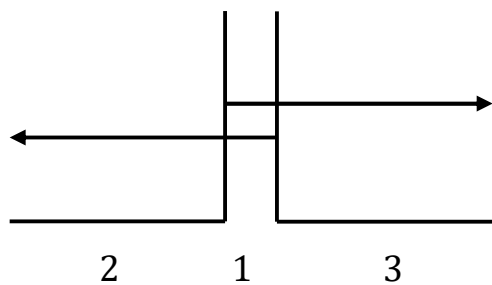
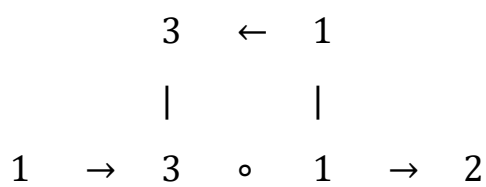
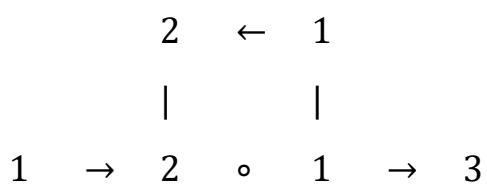
$R(Z)$

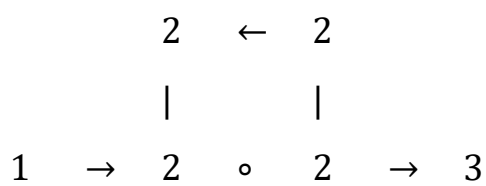
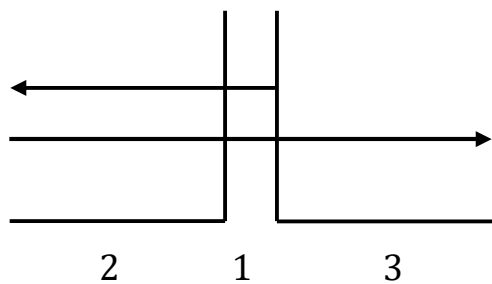
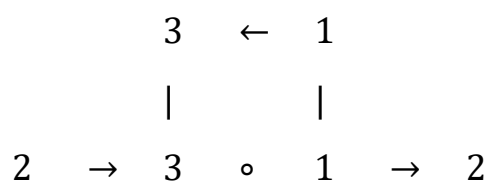
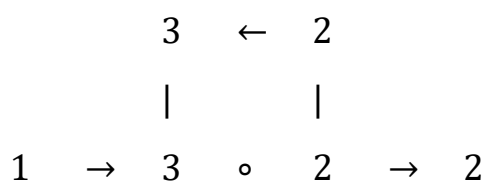
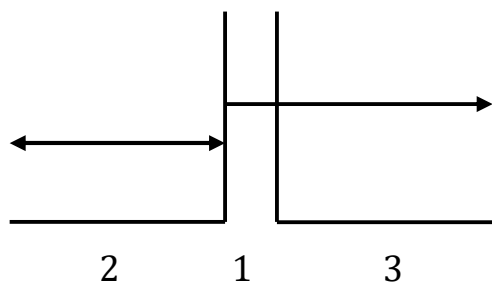
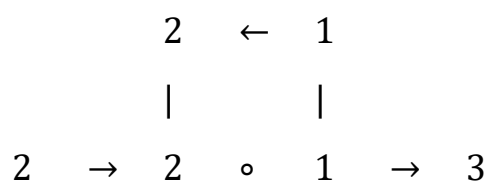
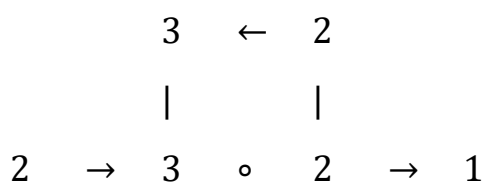
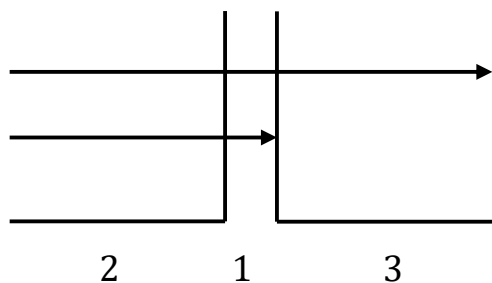
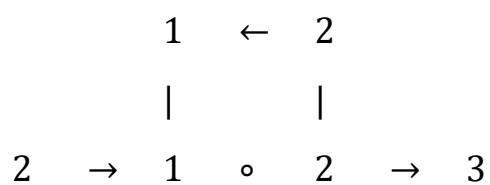


$KR(Z)$



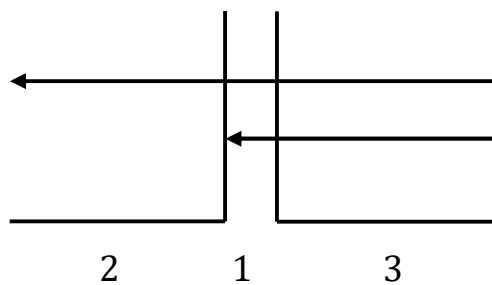
2. Durch Umstellung und Austausch der Objekte und Pfeile der vier Grundstrukturen kann man allerdings ein weiteres System aus $3 \text{ mal } 3 = 9$ Diamondstrukturen bilden, das die vier Grundstrukturen umfaßt. Wir geben im folgenden die Bi-Zeichenstrukturen mitsamt den kontextuellen Schemata (vgl. Toth 2025b).





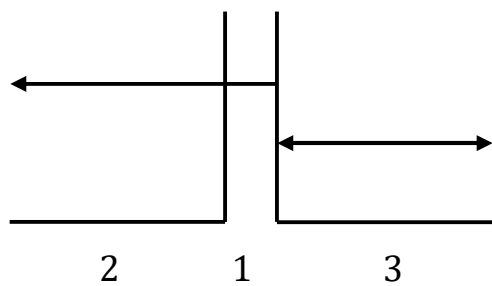
$$\begin{array}{ccccc}
 & 1 & \leftarrow & 3 & \\
 & | & & | & \\
 3 & \rightarrow & 1 & \circ & 3 \rightarrow 2
 \end{array}$$

$$\begin{array}{ccccc}
 & 2 & \leftarrow & 3 & \\
 & | & & | & \\
 3 & \rightarrow & 2 & \circ & 3 \rightarrow 1
 \end{array}$$



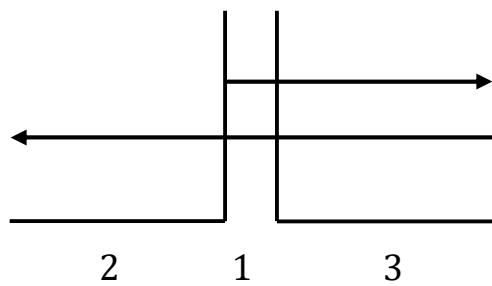
$$\begin{array}{ccccc}
 & 3 & \leftarrow & 1 & \\
 & | & & | & \\
 3 & \rightarrow & 3 & \circ & 1 \rightarrow 2
 \end{array}$$

$$\begin{array}{ccccc}
 & 2 & \leftarrow & 3 & \\
 & | & & | & \\
 1 & \rightarrow & 2 & \circ & 3 \rightarrow 3
 \end{array}$$



$$\begin{array}{ccccc}
 & 2 & \leftarrow & 1 & \\
 & | & & | & \\
 3 & \rightarrow & 2 & \circ & 1 \rightarrow 3
 \end{array}$$

$$\begin{array}{ccccc}
 & 3 & \leftarrow & 3 & \\
 & | & & | & \\
 1 & \rightarrow & 3 & \circ & 3 \rightarrow 2
 \end{array}$$



Literatur

Bense, Max, Die Einführung der Primzeichen. In: Ars semeiotica 3/3, 1980, S. 287-294

Toth, Alfred, Skizze einer Semiotik aus Bi-Zeichen. In: Electronic Journal for Mathematical Semiotics, 2025a

Toth, Alfred, Das Zeichen als Randrelation. In: Electronic Journal for Mathematical Semiotics, 2025b

29.5.2025