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Trajektische Strukturschemata eigenrealer Zeichenrelationen

1. Wir gehen aus von der Menge der Primzeichen (vgl. Bense 1980)

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

und bilden die Menge der Permutationen

$$\mathcal{P}(P) = ((1, 2, 3), (1, 3, 2), (2, 1, 3), (2, 3, 1), (3, 1, 2), (3, 2, 1)).$$

Wir bekommen dann ein System von drei Paaren von trajektischen Dyaden mit konstanten Randwerten und ohne semiotische Identitäten.

$$(2, 1, 3) \rightarrow (2.1 \mid 1.3)$$

$$(3, 1, 2) \rightarrow (3.1 \mid 1.2)$$

$$(1, 2, 3) \rightarrow (1.2 \mid 2.3)$$

$$(3, 2, 1) \rightarrow (3.2 \mid 2.1)$$

$$(1, 3, 2) \rightarrow (1.3 \mid 3.2)$$

$$(2, 3, 1) \rightarrow (2.3 \mid 3.1)$$

und daraus 6 Paare von NRK-Relationen (N = Normalform, R = Reflexivform, K = Konversionsform, vgl. Toth 2025a)

$$(2.1 \mid 1.3) \quad (3.1 \mid 1.2) \quad (3.1 \mid 1.2) \quad (2.1 \mid 1.3)$$

$$(1.3 \mid 2.1) \quad (1.2 \mid 3.1) \quad (1.2 \mid 3.1) \quad (1.3 \mid 2.1)$$

$$(1.2 \mid 2.3) \quad (3.2 \mid 2.1) \quad (3.2 \mid 2.1) \quad (1.2 \mid 2.3)$$

$$(2.3 \mid 1.2) \quad (2.1 \mid 3.2) \quad (2.1 \mid 3.2) \quad (2.3 \mid 1.2)$$

$$(1.3 \mid 3.2) \quad (2.3 \mid 3.1) \quad (2.3 \mid 3.1) \quad (1.3 \mid 3.2)$$

$$(3.2 \mid 1.3) \quad (3.1 \mid 2.3) \quad (3.1 \mid 2.3) \quad (3.2 \mid 1.3)$$

2. Trajektische Strukturschemata

$$2.1 \ P = (2, 1, 3)$$

$$\tau: (2, 1, 3) \rightarrow (2.1 \mid 1.3)$$

$$Q = \left(\begin{array}{l} (2.1 \mid 1.3), (3.1 \mid 1.2) \\ (1.3 \mid 2.1), (1.2 \mid 3.1) \end{array} \right)$$

Chiastische Struktur von Q:

$$\begin{array}{cc} Q^{\text{lo}} & Q^{\text{ro}} \\ \begin{array}{c} (2.1^{\text{lo}} \mid 1.3^{\text{ro}})^{\text{lo}} \\ \diagdown \quad \diagup \\ (1.3^{\text{ro}} \mid 2.1^{\text{lo}})^{\text{lo}} \end{array} & \parallel \begin{array}{c} (3.1^{\text{lo}} \mid 1.2^{\text{ro}})^{\text{ro}} \\ \diagdown \quad \diagup \\ (1.2^{\text{ro}} \mid 3.1^{\text{lo}})^{\text{ro}} \end{array} \end{array}$$

Transformationen:

$$\begin{array}{cc} Q^{\text{lo}}: & Q^{\text{ro}}: \\ (2.1^{\text{lo}})^{\text{lo}} \rightarrow (2.1^{\text{lo}})^{\text{ro}} & (3.1^{\text{lo}})^{\text{lo}} \rightarrow (3.1^{\text{lo}})^{\text{ro}} \\ (1.3^{\text{ro}})^{\text{ro}} \rightarrow (1.3^{\text{ro}})^{\text{lo}} & (1.2^{\text{ro}})^{\text{ro}} \rightarrow (1.2^{\text{ro}})^{\text{lo}} \end{array}$$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (2.1^{\text{lo}})^{\text{lo}} \rightarrow (2.1^{\text{lo}})^{\text{ro}} \\ (1.3^{\text{ro}})^{\text{ro}} \rightarrow (1.3^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{lo}} \parallel \left(\begin{array}{l} (3.1^{\text{lo}})^{\text{lo}} \rightarrow (3.1^{\text{lo}})^{\text{ro}} \\ (1.2^{\text{ro}})^{\text{ro}} \rightarrow (1.2^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{ro}}$$

$$2.2. P = (3, 1, 2)$$

$$\tau: (3, 1, 2) \rightarrow (3.1 \mid 1.2)$$

$$Q = \left(\begin{array}{l} (3.1 \mid 1.2), (2.1 \mid 1.3) \\ (1.2 \mid 3.1), (1.3 \mid 2.1) \end{array} \right)$$

Chiastische Struktur von Q:

$$\begin{array}{cc} Q^{\text{lo}} & Q^{\text{ro}} \\ \begin{array}{c} (3.1^{\text{lo}} \mid 1.2^{\text{ro}})^{\text{lo}} \\ \diagdown \quad \diagup \\ (1.2^{\text{ro}} \mid 3.1^{\text{lo}})^{\text{lo}} \end{array} & \parallel \begin{array}{c} (2.1^{\text{lo}} \mid 1.3^{\text{ro}})^{\text{ro}} \\ \diagdown \quad \diagup \\ (1.3^{\text{ro}} \mid 2.1^{\text{lo}})^{\text{ro}} \end{array} \end{array}$$

Transformationen:

$$\begin{array}{cc} Q^{\text{lo}}: & Q^{\text{ro}}: \\ (3.1^{\text{lo}})^{\text{lo}} \rightarrow (3.1^{\text{lo}})^{\text{ro}} & (2.1^{\text{lo}})^{\text{lo}} \rightarrow (2.1^{\text{lo}})^{\text{ro}} \\ (1.2^{\text{ro}})^{\text{ro}} \rightarrow (1.2^{\text{ro}})^{\text{lo}} & (1.3^{\text{ro}})^{\text{ro}} \rightarrow (1.3^{\text{ro}})^{\text{lo}} \end{array}$$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (3.1^{\text{lo}})^{\text{lo}} \rightarrow (3.1^{\text{lo}})^{\text{ro}} \\ (1.2^{\text{ro}})^{\text{ro}} \rightarrow (1.2^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{lo}} \quad \parallel \quad \left(\begin{array}{l} (2.1^{\text{lo}})^{\text{lo}} \rightarrow (2.1^{\text{lo}})^{\text{ro}} \\ (1.3^{\text{ro}})^{\text{ro}} \rightarrow (1.3^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{ro}}$$

$$2.3. P = (1, 2, 3)$$

$$\tau: (1, 2, 3) \rightarrow (1.2 \mid 2.3)$$

$$Q = \left(\begin{array}{l} (1.2 \mid 2.3), (3.2 \mid 2.1) \\ (2.3 \mid 1.2), (2.1 \mid 3.2) \end{array} \right)$$

Chiastische Struktur von Q:

$$\begin{array}{cc} Q^{\text{lo}} & Q^{\text{ro}} \\ \begin{array}{c} (1.2^{\text{lo}} \mid 2.3^{\text{ro}})^{\text{lo}} \\ \diagdown \quad \diagup \\ (2.3^{\text{ro}} \mid 1.2^{\text{lo}})^{\text{lo}} \end{array} & \parallel \quad \begin{array}{c} (3.2^{\text{lo}} \mid 2.1^{\text{ro}})^{\text{ro}} \\ \diagdown \quad \diagup \\ (2.1^{\text{ro}} \mid 3.2^{\text{lo}})^{\text{ro}} \end{array} \end{array}$$

Transformationen:

$$\begin{array}{cc} Q^{\text{lo}}: & Q^{\text{ro}}: \\ (1.2^{\text{lo}})^{\text{lo}} \rightarrow (1.2^{\text{lo}})^{\text{ro}} & (3.2^{\text{lo}})^{\text{lo}} \rightarrow (3.2^{\text{lo}})^{\text{ro}} \\ (2.3^{\text{ro}})^{\text{ro}} \rightarrow (2.3^{\text{ro}})^{\text{lo}} & (2.1^{\text{ro}})^{\text{ro}} \rightarrow (2.1^{\text{ro}})^{\text{lo}} \end{array}$$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (1.2^{\text{lo}})^{\text{lo}} \rightarrow (1.2^{\text{lo}})^{\text{ro}} \\ (2.3^{\text{ro}})^{\text{ro}} \rightarrow (2.3^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{lo}} \quad \parallel \quad \left(\begin{array}{l} (3.2^{\text{lo}})^{\text{lo}} \rightarrow (3.2^{\text{lo}})^{\text{ro}} \\ (2.1^{\text{ro}})^{\text{ro}} \rightarrow (2.1^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{ro}}$$

$$2.4 P = (3, 2, 1)$$

$$\tau: (3, 2, 1) \rightarrow (3.2 \mid 2.1)$$

$$Q = \left(\begin{array}{l} (3.2 \mid 2.1), (1.2 \mid 2.3) \\ (2.1 \mid 3.2), (2.3 \mid 1.2) \end{array} \right)$$

Chiastische Struktur von Q:

Q^{lo} $(3.2^{lo} \mid 2.1^{ro})^{lo}$ $\parallel$ $(2.1^{ro} \mid 3.2^{lo})^{lo}$ $\parallel$ Q^{ro} $(1.2^{lo} \mid 2.3^{ro})^{ro}$ $(2.3^{ro} \mid 1.2^{lo})^{ro}$

Transformationen:

 $Q^{lo}:$ $(3.2^{lo})^{lo} \rightarrow (3.2^{lo})^{ro}$ $(2.1^{ro})^{ro} \rightarrow (2.1^{ro})^{lo}$ $Q^{ro}:$ $(1.2^{lo})^{lo} \rightarrow (1.2^{lo})^{ro}$ $(2.3^{ro})^{ro} \rightarrow (2.3^{ro})^{lo}$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (3.2^{lo})^{lo} \rightarrow (3.2^{lo})^{ro} \\ (2.1^{ro})^{ro} \rightarrow (2.1^{ro})^{lo} \end{array} \right)^{lo} \parallel \left(\begin{array}{l} (1.2^{lo})^{lo} \rightarrow (1.2^{lo})^{ro} \\ (2.3^{ro})^{ro} \rightarrow (2.3^{ro})^{lo} \end{array} \right)^{ro}$$

2.5. $P = (1, 3, 2)$

$\tau: (1, 3, 2) \rightarrow (1.3 \mid 3.2)$

$$Q = \left(\begin{array}{l} (1.3 \mid 3.2), (2.3 \mid 3.1) \\ (3.2 \mid 1.3), (3.1 \mid 2.3) \end{array} \right)$$

Chiastische Struktur von Q :

 Q^{lo} $(1.3^{lo} \mid 3.2^{ro})^{lo}$ $\parallel$ $(3.2^{ro} \mid 1.3^{lo})^{lo}$ $\parallel$ Q^{ro} $(2.3^{lo} \mid 3.1^{ro})^{ro}$ $(3.1^{ro} \mid 2.3^{lo})^{ro}$

Transformationen:

 $Q^{lo}:$ $(1.3^{lo})^{lo} \rightarrow (1.3^{lo})^{ro}$ $(3.2^{ro})^{ro} \rightarrow (3.2^{ro})^{lo}$ $Q^{ro}:$ $(2.3^{lo})^{lo} \rightarrow (2.3^{lo})^{ro}$ $(3.1^{ro})^{ro} \rightarrow (3.1^{ro})^{lo}$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (1.3^{lo})^{lo} \rightarrow (1.3^{lo})^{ro} \\ (3.2^{ro})^{ro} \rightarrow (3.2^{ro})^{lo} \end{array} \right)^{lo} \parallel \left(\begin{array}{l} (2.3^{lo})^{lo} \rightarrow (2.3^{lo})^{ro} \\ (3.1^{ro})^{ro} \rightarrow (3.1^{ro})^{lo} \end{array} \right)^{ro}$$

2.6. $P = (2, 3, 1)$

$\tau: (2, 3, 1) \rightarrow (2.3 \mid 3.1)$

$$Q = \left(\begin{array}{l} (2.3 \mid 3.1), (1.3 \mid 3.2) \\ (3.1 \mid 2.3), (3.2 \mid 1.3) \end{array} \right)$$

Chiastische Struktur von Q:

$$\begin{array}{cc} Q^{\text{lo}} & Q^{\text{ro}} \\ \begin{array}{c} (2.3^{\text{lo}} \mid 3.1^{\text{ro}})^{\text{lo}} \\ \diagdown \quad \diagup \\ (3.1^{\text{ro}} \mid 2.3^{\text{lo}})^{\text{lo}} \end{array} & \parallel \begin{array}{c} (1.3^{\text{lo}} \mid 3.2^{\text{ro}})^{\text{ro}} \\ \diagdown \quad \diagup \\ (3.2^{\text{ro}} \mid 1.3^{\text{lo}})^{\text{ro}} \end{array} \end{array}$$

Transformationen:

$$\begin{array}{cc} Q^{\text{lo}}: & Q^{\text{ro}}: \\ (2.3^{\text{lo}})^{\text{lo}} \rightarrow (2.3^{\text{lo}})^{\text{ro}} & (1.3^{\text{lo}})^{\text{lo}} \rightarrow (1.3^{\text{lo}})^{\text{ro}} \\ (3.1^{\text{ro}})^{\text{ro}} \rightarrow (3.1^{\text{ro}})^{\text{lo}} & (3.2^{\text{ro}})^{\text{ro}} \rightarrow (3.2^{\text{ro}})^{\text{lo}} \end{array}$$

Trajektisches Strukturschema:

$$\left(\begin{array}{l} (2.3^{\text{lo}})^{\text{lo}} \rightarrow (2.3^{\text{lo}})^{\text{ro}} \\ (3.1^{\text{ro}})^{\text{ro}} \rightarrow (3.1^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{lo}} \parallel \left(\begin{array}{l} (1.3^{\text{lo}})^{\text{lo}} \rightarrow (1.3^{\text{lo}})^{\text{ro}} \\ (3.2^{\text{ro}})^{\text{ro}} \rightarrow (3.2^{\text{ro}})^{\text{lo}} \end{array} \right)^{\text{ro}}$$

Literatur

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