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Title

Diagrammatik und Komplementarität

Archive-Number / Categories

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Keywords

graphematics, composition of arrow diagrams, arrows in matrices, categorization of diagrams, diagrammatics of composition and juxtaposition, proemialrelation, metamorphosis matrix/diagram/formula/interpretation, metamorphic interchangeability of interpretations, verb-noun metamorphism, diamond diagram,

Disciplines

Cybernetics, Computer Sciences,

Abstract

System der Pfeil-Diagramme zur Darstellung der Nicht-Darstellbarkeit von Proömilitat, Chiasmen und Diamonds

System of the arrow diagrams for the representation of the non-representability of prooemics, chiasms and diamonds.

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Categories of the RK-Archive

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| K02 Scientific Essays | K09 Morphogrammatics |
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| K04 Diamond Theory | K11 Memristics Memristors Computation |
| K05 Interactivity | K12 Cellular Automata |
| K06 Diamond Strategies | K13 RK and friends |
| K07 Contextural Programming Paradigm | |

Diagrammatik und Komplementarität

System der Pfeil-Diagramme zur
Darstellung der Nicht-
Darstellbarkeit von Proömilitat,
Chiasmen und Diamonds.

Ziele der Graphematik

- Formalisierung der Diagrammatik
- Darstellung der Diagramme im Rahmen einer poly-kontexturalen Kategorientheorie
- System-Model-Relation zwischen Diagrammen und Polykategorien

Komposition von Pfeildiagrammen

- Ein System von drei Grundpfeilen und einer Kompositionsregel
- Pfeil der Ordnung
- Pfeil des Umtausches
- Pfeil der Ähnlichkeit
- Regel der Verknüpfbarkeit von Pfeilen
- Fundierungspfeile

Pfeil der Ordnung

- Westliche wissenschaftliche Denkform
- Mathematische Kategorientheorie
- Morphismen
- Komposition von Morphismen

Pfeil des Umtausches

- Dialektik, Polarität, Dynamik
- Grenzen der Formalisierbarkeit
- Paradoxe Formalismen
- Parakonsistente Logiken

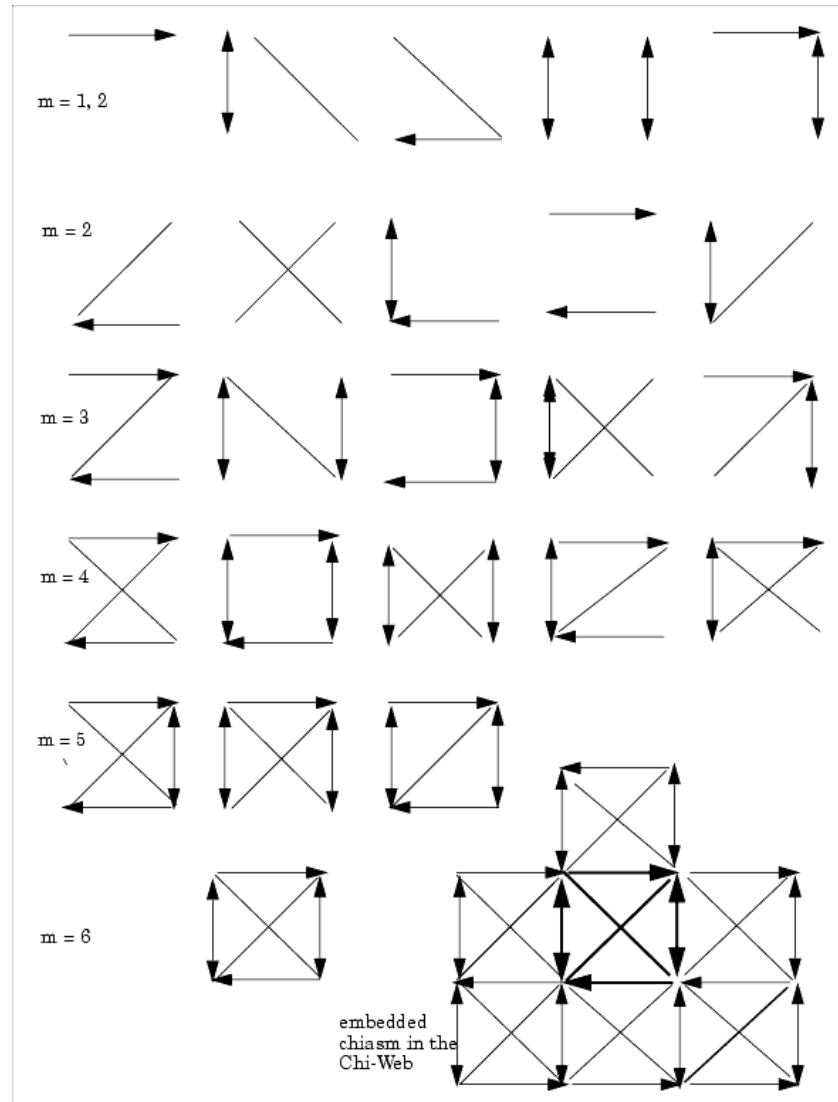
Pfeil der Ähnlichkeit

- Analogismus
- Nicht operationalisierbar, weil Operator und Operand in ihrer Ähnlichkeit zusammenfallen
- Methode Analogia entis

Regel der Verknüpfbarkeit

- Matching conditions für lineare Verknüpfung
- Ende eines Pfeils wird mit dem Anfang eines anderen Pfeils verbunden.
- Ein Pfeil kann mit sich selbst verbunden werden.
- Ein Fundierungspfeil hat eine orthogonale Verknüpfung

Tabelle der Elementarverknüpfungen



Pfeildiagramme in Matrizen

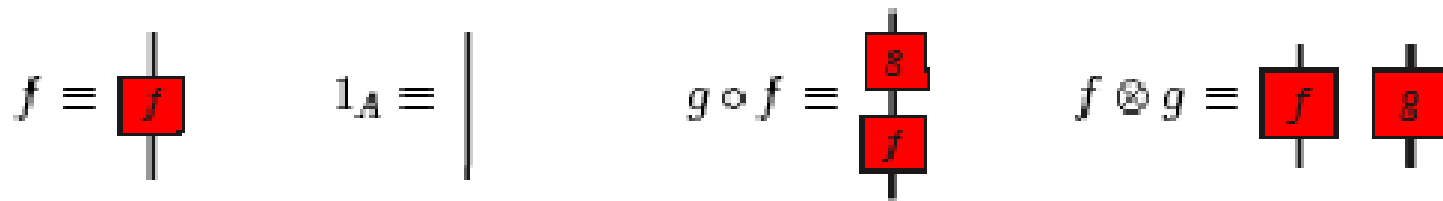
- Verortung von Diagrammen
- Interpretation von Verortungen
- Reflektionalität
- Interaktivität
- Interventionalität
- Metamorphose

Kategorialisierung von Diagrammen

- Klassische Kategorientheorie der Komposition von Morphismen
- Moderne Kategorientheorie mit Komposition und Yuxtaposition
- Topologische Diagramme
- n-Kategorien

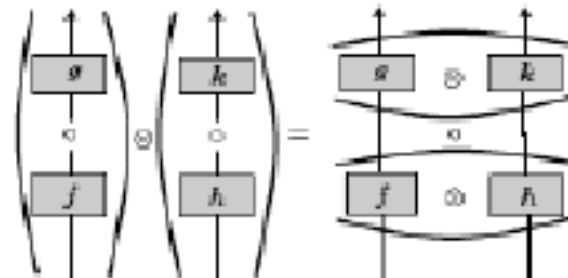
Diagrammatrik von Komposition und Yuxtaposition

- Zuordnungen



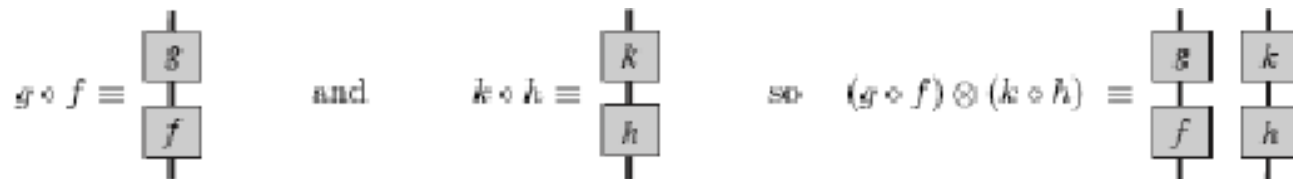
Formulated as an orthogonality of sequential and parallel components.

$$\text{par} \left(\text{seq} \left(f_1, g_1 \right), \text{seq} \left(f_2, g_2 \right) \right) = \text{seq} \left(\text{par} \left(g_1, g_2 \right), \text{par} \left(f_1, f_2 \right) \right)$$

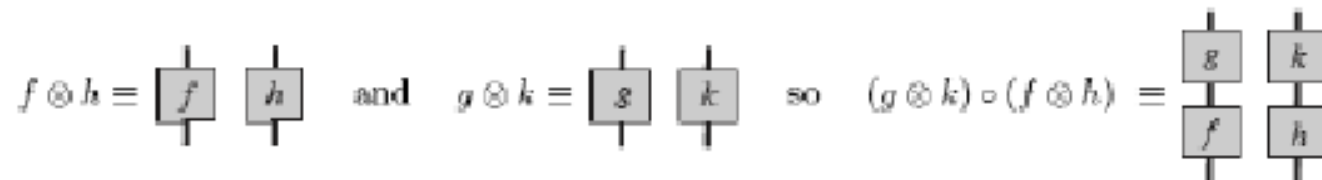


Komposition und Yuxtaposition

- Verknüpfungen



On the other hand we have:

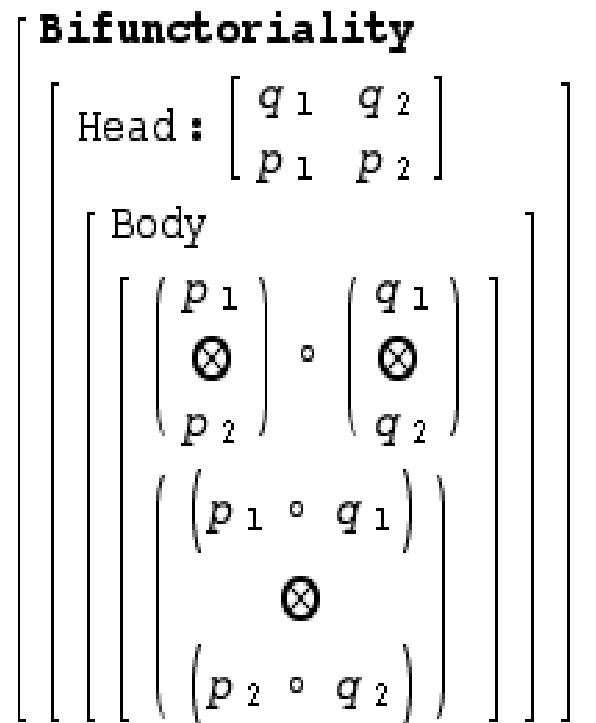
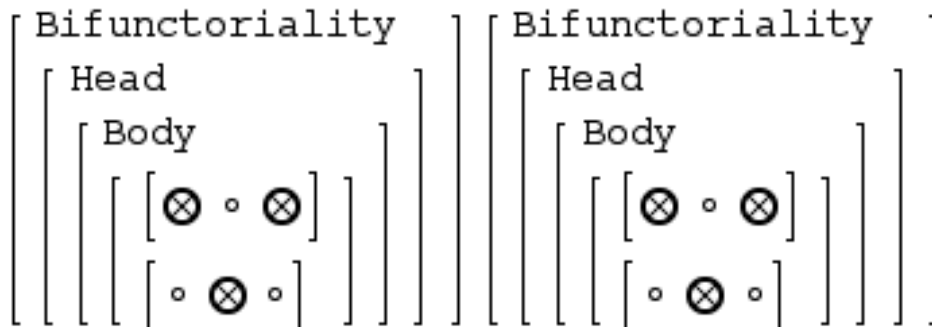


Bifunctionality in category theory with $[\circ , \otimes]$

$$\begin{bmatrix} q_1 & q_2 \\ p_1 & p_2 \end{bmatrix} : \begin{pmatrix} p_1 \\ \otimes \\ p_2 \end{pmatrix} \circ \begin{pmatrix} q_1 \\ \otimes \\ q_2 \end{pmatrix} = \begin{pmatrix} (p_1 \circ q_1) \\ \otimes \\ (p_2 \circ q_2) \end{pmatrix}$$

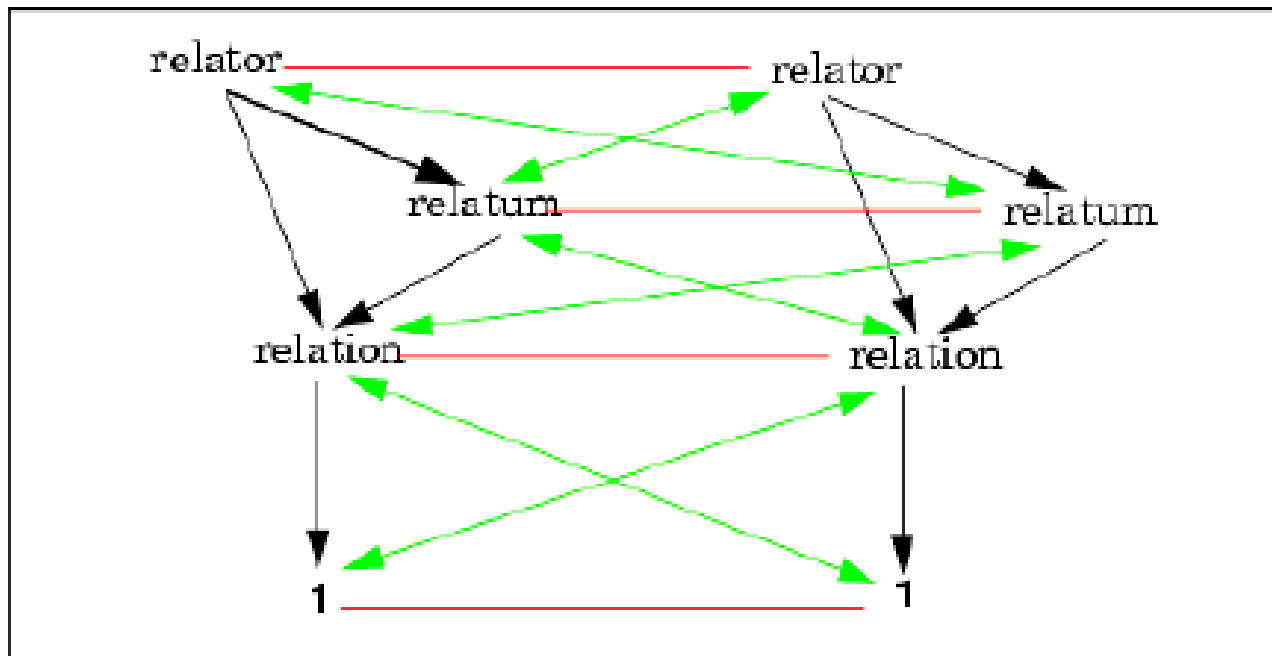
Verklammerung

- Klammerdarstellung



Formalisierung von Diagrammen

- Chiastische Verknüpfung zweier fundierter Systeme



(RelSyst, Anch) - chiasm :

$$\left(\begin{array}{c} \mathcal{U}_2 \\ \mathcal{U}_1 \end{array} \right), \left(\begin{array}{cc} \left(\begin{array}{c} \text{Rat} \\ \text{Rand} \\ \text{Rel} \\ \text{Anch}_1 \end{array} \right)_1 & \left(\begin{array}{c} \text{Rat} \\ \text{Rand} \\ \text{Rel} \\ \text{Anch}_2 \end{array} \right)_2 \end{array} \right) :$$

α . **parallel**, contextual ($\text{red}(\text{II}) + \text{black}(\circ)$)

$$\left(\begin{array}{c} \text{Anch}_2 \\ \text{II} \\ \text{Anch}_1 \end{array} \right) \circ \left(\begin{array}{c} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right) = \left(\begin{array}{cc} \text{Anch}_2 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \text{Anch}_1 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right)$$

β . **chiasm** ($\text{green}(\diamond) + \text{red}(\text{II})$)

$$\left(\begin{array}{c} \text{Anch}_2 \\ \text{II} \\ \text{Anch}_1 \end{array} \right) \diamond \left(\begin{array}{c} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right) = \left(\begin{array}{cc} \text{Anch}_2 \diamond \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \text{Anch}_1 \diamond \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right)$$

γ . **proemial** ($\text{green}(\diamond) + \text{red}(\text{II}) + \text{black}(\circ)$)

$$\left(\begin{array}{c} \text{Anch}_2 \\ \text{II} \\ \text{Anch}_1 \end{array} \right) \blacksquare \left(\begin{array}{c} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right) = \left(\begin{array}{cc} \text{Anch}_2 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \diamond \text{II} \\ \text{Anch}_1 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{array} \right)$$

$$\blacksquare = (\text{II}, \diamond)$$

Tabelle der Basis- Relationalitäten

Table of basic relational patterns

i	É	—ô	þ	ú	■	y
	-ô	morph	par	chiasm	proem	
	þ	par	med	dial	dial	
	ú	chiasm	dial	cross	dial	
k	■	proem	dial	dial	cross - med	{

Parallel

- Parallelverknüpfung

$\alpha.$ **parallel**, contextual $\left(\text{red} \left(\Pi \right) + \text{black} \left(\circ \right) \right)$

$$\begin{pmatrix} \text{Anch}_2 \\ \Pi \\ \text{Anch}_1 \end{pmatrix} \circ \begin{pmatrix} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \Pi \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix} = \begin{pmatrix} \text{Anch}_2 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \Pi \\ \text{Anch}_1 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix}$$

Chiasmus

- Überkreuzstellung

$$\beta. \text{ chiasm } \left(\text{green } \left(\diamond \right) + \text{red } \left(\text{II} \right) \right)$$

$$\begin{pmatrix} \text{Anch}_2 \\ \text{II} \\ \text{Anch}_1 \end{pmatrix} \diamond \begin{pmatrix} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix} = \begin{pmatrix} \text{Anch}_2 \diamond \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \text{II} \\ \text{Anch}_1 \diamond \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix}$$

Proemialrelation

γ . **proemial** (green (\diamond) + red (Π) + black (\circ))

$$\begin{pmatrix} \text{Anch}_2 \\ \Pi \\ \text{Anch}_1 \end{pmatrix} \blacksquare \begin{pmatrix} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \Pi \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix} = \begin{pmatrix} \text{Anch}_2 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 \\ \Pi \diamond \Pi \\ \text{Anch}_1 \circ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 \end{pmatrix}$$

Anker als Umgebung

- Die Verankerung, d.h. Begründung des relationalen Systems wird als Umgebung notiert.

daher folgt mit der Zusammenfassung $\blacksquare = (\Pi, \diamond)$:

$$\left(\begin{array}{c|c} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 & \text{Anch}_2 \\ \hline \Pi & \diamond \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 & \text{Anch}_1 \end{array} \right) = \left(\begin{array}{c|c} \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_2 & \\ \hline \Pi & \\ \left(\begin{array}{c} \text{Rat} \circ \text{Rand} \\ \text{Rel} \end{array} \right)_1 & \end{array} \right) \left| \text{Anch}_2 \blacksquare \text{Anch}_1 \right.$$

Lineare Formulierung

Metamorphose-Matrix

- Matrix = (O, M)
- Metamorphose zwischen O1 und O2

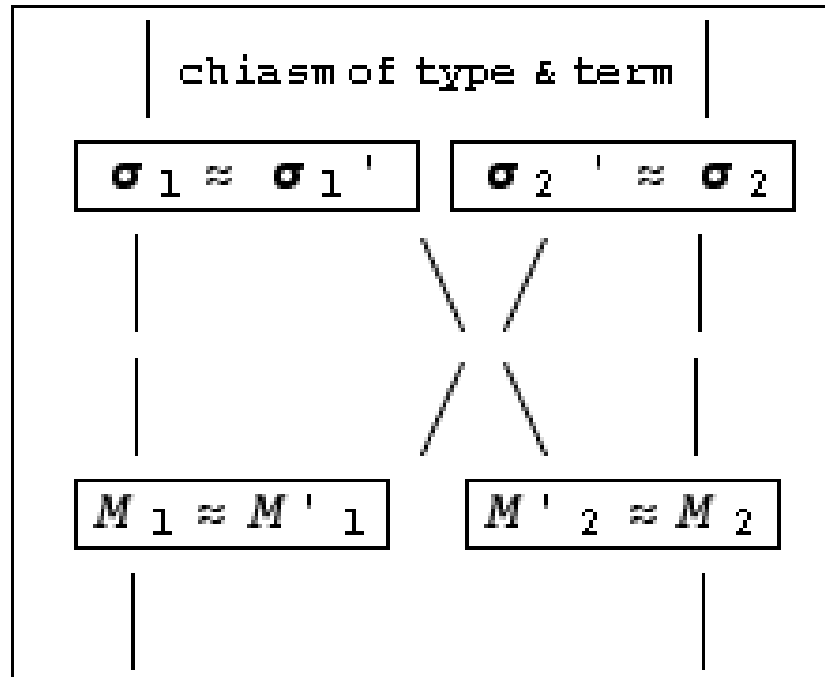
O ₁			O ₂			O ₃		
M1	M2	M3	M1	M2	M3	M1	M2	M3
M		#	M		#	#	#	M
↓	M		↓					↓
σ	↓		↓	σ				↓
↓	σ		↓	↓				↓
↓	↓		↓	↓				↓
G ₁₂₀			G ₁₂₀			G ₀₀₃		

Diagram illustrating a metamorphosis matrix between O₁ and O₂. The matrix is a 3x3 grid with columns labeled O₁, O₂, and O₃, and rows labeled M1, M2, and M3. The matrix is partitioned into three groups: G₁₂₀ (O₁ and O₂), G₁₂₀ (O₂), and G₀₀₃ (O₃). The matrix contains symbols M, #, and σ. Red arrows indicate a transformation path from O₁ to O₂. Green arrows indicate a transformation path from O₁ to O₂. Black arrows indicate a transformation path from O₂ to O₃.

Metamorphose-Diagramm

- Vermittlung und Überkreuzstellung

Diagram



Metamorphose-Formel

Formula

Metamorphic chiasm of type and term

$[(M, \sigma), \approx, \diamond, \circ, \Pi]$

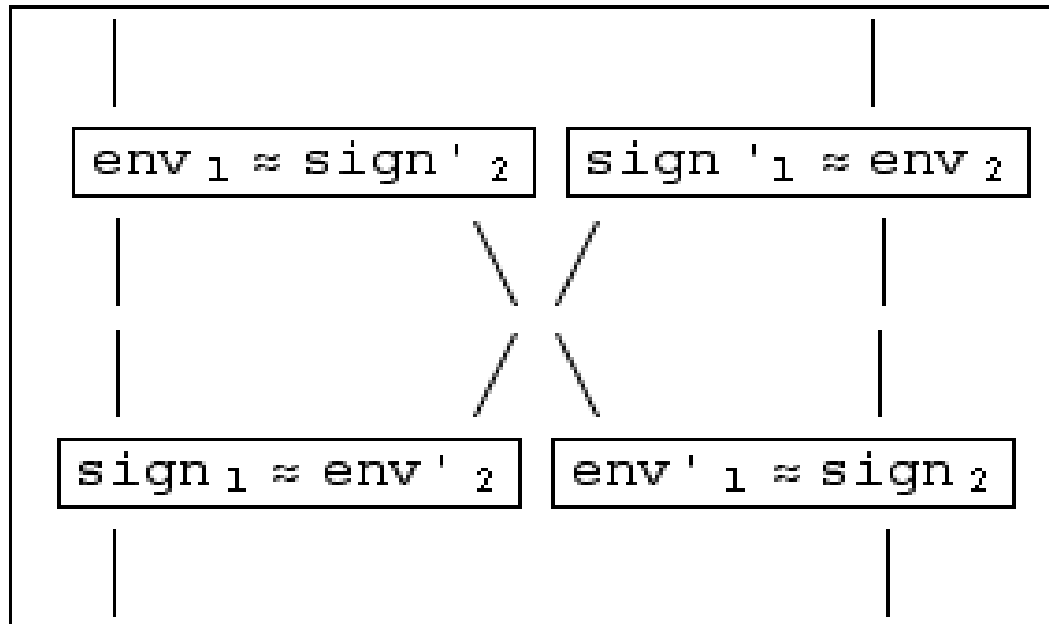
$$\left(\begin{array}{c} \left((M_1 \approx M'_1) \circ (\sigma_1 \approx \sigma'_1) \right) \\ \diamond \quad \quad \quad \Pi \quad \quad \quad \diamond \\ \left((M_2 \approx M'_2) \circ (\sigma_2 \approx \sigma'_2) \right) \end{array} \right)$$

$$\left[\begin{array}{cc} (M_1 \approx & M'_1) \\ & \Pi \quad \diamond \\ (M_2 \approx & M'_2) \end{array} \right] \circ \left[\begin{array}{ccc} (\sigma_1 & \approx & \sigma'_1) \\ & \Pi & \diamond \\ (\sigma_2 & \approx & \sigma'_2) \end{array} \right] =$$

$$\left[\begin{array}{ccc} (M_1 \circ & & \sigma_1) \\ & \Pi & \\ (M_2 \circ & & \sigma_2) \end{array} \right] \approx \left[\begin{array}{ccc} (M'_1 \circ & & \sigma'_1) \\ & \diamond & \\ (\sigma'_2 \circ & & M'_2) \end{array} \right]$$

Metamorphose Interpretation

- Zeichen und Umgebung



Zeichen-Umgebung- Vertauschbarkeit

Metamorphic Interchangeability in the

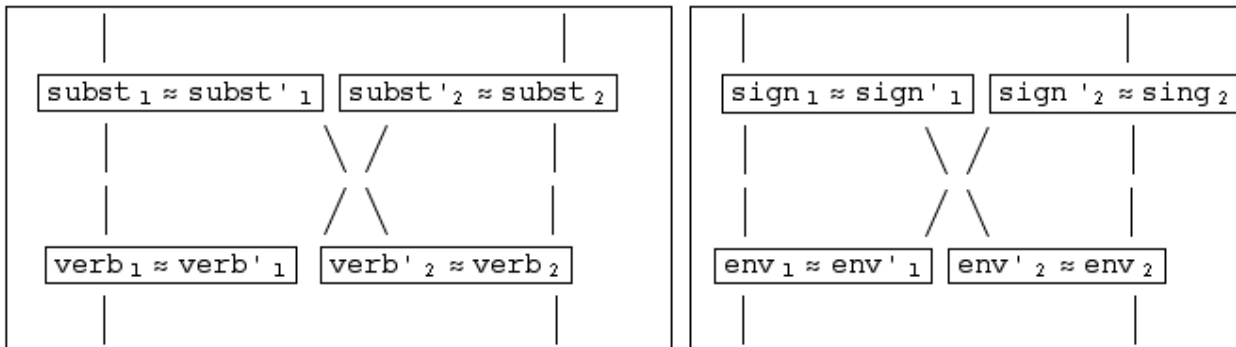
as - mode [\approx , \diamond , \circ , Π]

$$\left(\begin{array}{c} \left(\left(\text{sign}_1 \approx \text{env}'_2 \right) \circ \left(\text{env}_1 \approx \text{sign}'_2 \right) \right) \\ \diamond \qquad \qquad \qquad \Pi \qquad \qquad \qquad \diamond \\ \left(\left(\text{sign}_2 \approx \text{env}'_1 \right) \circ \left(\text{env}_2 \approx \text{sign}'_1 \right) \right) \end{array} \right) =$$

$$\left[\begin{array}{c} \left(\text{sign}_1 \approx \text{env}'_2 \right) \\ \qquad \qquad \qquad \Pi \qquad \qquad \qquad \diamond \\ \left(\text{sign}_2 \approx \text{g}'_2 \right) \end{array} \right] \circ \left[\begin{array}{c} \left(\text{env}_1 \approx \text{g}'_1 \right) \\ \qquad \qquad \qquad \Pi \qquad \qquad \qquad \diamond \\ \left(\text{env}_2 \approx \text{f}'_2 \right) \end{array} \right] =$$

$$\left[\begin{array}{c} \left(\text{sign}_1 \circ \text{env}_1 \right) \\ \qquad \qquad \qquad \Pi \\ \left(\text{sign}_2 \circ \text{env}_2 \right) \end{array} \right] \approx \left[\begin{array}{c} \left(\text{sign}'_2 \circ \text{env}'_1 \right) \\ \qquad \qquad \qquad \diamond \\ \left(\text{g}'_2 \circ \text{f}'_2 \right) \end{array} \right]$$

Substantiv-Verb



Metamorphische Vertauschbarkeit

**Metamorphic Interchangeability in the
as - mode [\approx , \diamond , \circ , Π]**

$$\left(\begin{array}{c} \left(\left(f_1 \approx f'_1 \right) \circ \left(g_1 \approx g'_1 \right) \right) \\ \diamond \quad \quad \quad \Pi \quad \quad \quad \diamond \\ \left(\left(f_2 \approx f'_2 \right) \circ \left(g_2 \approx g'_2 \right) \right) \end{array} \right) =$$

$$\left[\begin{array}{cc} \left(f_1 \approx & f'_1 \right) \\ \Pi & \diamond \\ \left(f_2 \approx & g'_2 \right) \end{array} \right] \circ \left[\begin{array}{cc} \left(g_1 \approx & g'_1 \right) \\ \Pi & \diamond \\ \left(g_2 \approx & f'_2 \right) \end{array} \right] =$$

$$\left[\begin{array}{cc} \left(f_1 \circ & g_1 \right) \\ \Pi & \\ \left(f_2 \circ & g_2 \right) \end{array} \right] \approx \left[\begin{array}{cc} \left(f'_1 \circ & g'_1 \right) \\ & \diamond \\ \left(g'_2 \circ & f'_2 \right) \end{array} \right]$$

Operators

$$[\ast, \diamond, \circ, \sqcup] = [\text{as, transvers, composition, mediation}]$$

Wording

1. f_1 as f_1 , $f_1 \equiv f_1$, is connected with g_1 as g_1 , $g_1 \equiv g_1$, by composition : $(f_1 \circ g_1)$

2. f_2 as f_2 , $f_2 \equiv f_2$, is connected with g_2 as g_2 , $g_2 \equiv g_2$, by composition : $(f_2 \circ g_2)$;

3. f_1 as f_1 is connected with f_2 as f_2 by mediation : $\begin{pmatrix} f_1 \\ \sqcup \\ f_2 \end{pmatrix}$

4. g_1 as g_1 is connected with g_2 as g_2 by mediation : $\begin{pmatrix} g_1 \\ \sqcup \\ g_2 \end{pmatrix}$;

5. f_1 as f'_1 , $(f_1 \ast f'_1)$,

is connected with g_2 as g'_2 , $(g_2 \ast g'_2)$, by transversality : $\begin{pmatrix} f'_1 \\ \diamond \\ g'_2 \end{pmatrix}$

6. g_1 as g'_1 , $(g_1 \ast g'_1)$,

is connected with f_2 as f'_2 , $(f_2 \ast f'_2)$, by transversality : $\begin{pmatrix} g'_1 \\ \diamond \\ f'_2 \end{pmatrix}$.

Hence, the term "f" as (f, f') is at once in a *compositional* relation with "g"

and in a *transversal* relation with "g'",

as well as in a *mediational* relation with the composition " \circ ".

Metamorphic interchangeability of interpretations

1. verb₁ as verb₁, is connected with substantiv₁ as substantiv₁, by composition : (verb₁ ◦ substantiv₁)

2. verb₂ as verb₂, is connected with substantiv₂ as substantiv₂, by composition : (verb₂ ◦ substantiv₂);

3. verb₁ as verb₁ is connected with verb₂ as verb₂ by mediation : $\begin{pmatrix} \text{verb}_1 \\ \text{II} \\ \text{verb}_2 \end{pmatrix}$

4. substantiv₁ as substantiv₁ is connected with substantiv₂ as substantiv₂ by mediation : $\begin{pmatrix} \text{substantiv}_1 \\ \text{II} \\ \text{substantiv}_2 \end{pmatrix}$;

5. verb₁ as verb'₁, (verb₁ ≈ verb'₁),

is connected with substantiv₂ as substantiv'₂, (substantiv₂ ≈ substantiv'₂), by transversality : $\begin{pmatrix} \text{verb}'_1 \\ \diamond \\ \text{substantiv}'_2 \end{pmatrix}$

6. substantiv₁ as substantiv'₁, (substantiv₁ ≈ substantiv'₁),

is connected with verb₂ as verb'₂, (verb₂ ≈ verb'₂), by transversality : $\begin{pmatrix} \text{substantiv}'_1 \\ \diamond \\ \text{verb}'_2 \end{pmatrix}$.

Verb-Substantiv- Metamorphosis

Metamorphic interchangeability in the as – mode [\approx , \diamond , \circ , Π]

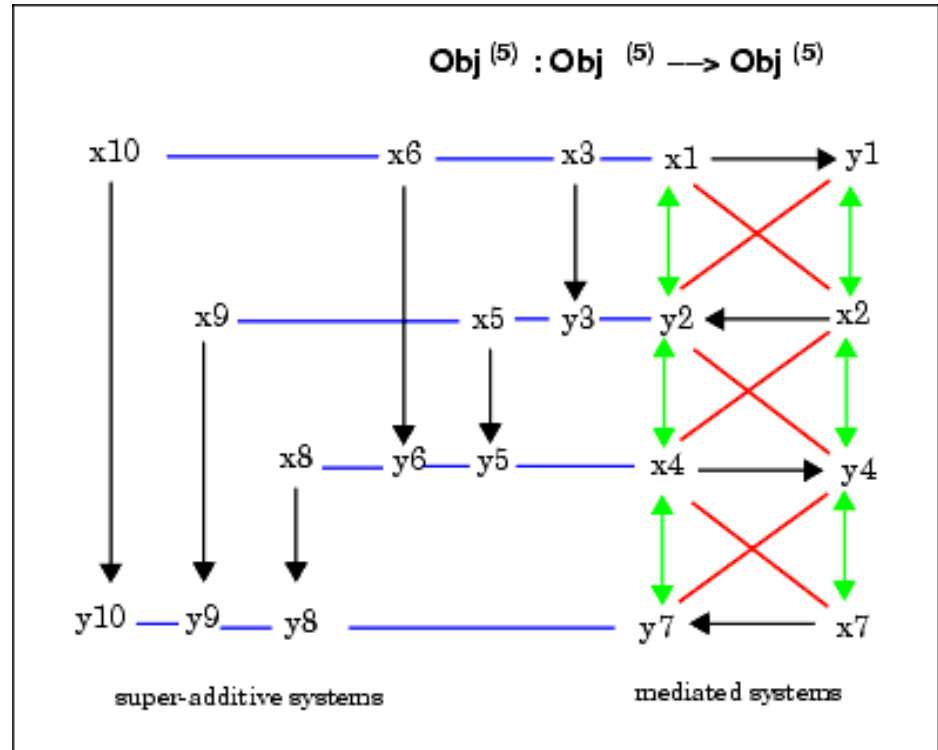
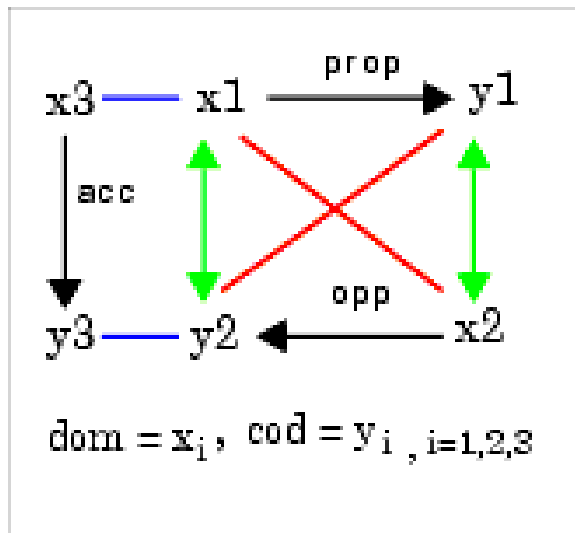
$$\left(\begin{array}{c} \left(\left(\text{verb}_1 \approx \text{verb}'_1 \right) \circ \left(\text{substantiv}_1 \approx \text{substantiv}'_1 \right) \right) \\ \diamond \qquad \qquad \qquad \Pi \qquad \qquad \qquad \diamond \\ \left(\left(\text{verb}_2 \approx \text{verb}'_2 \right) \circ \left(\text{substantiv}_2 \approx \text{substantiv}'_2 \right) \right) \end{array} \right) =$$

$$\left[\begin{array}{cc} \left(\text{verb}_1 \approx \text{verb}'_1 \right) \\ \Pi \qquad \qquad \diamond \\ \left(\text{verb}_2 \approx \text{substantiv}'_2 \right) \end{array} \right] \circ \left[\begin{array}{cc} \left(\text{substantiv}_1 \approx \text{substantiv}'_1 \right) \\ \Pi \qquad \qquad \diamond \\ \left(\text{substantiv}_2 \approx \text{verb}'_2 \right) \end{array} \right] =$$

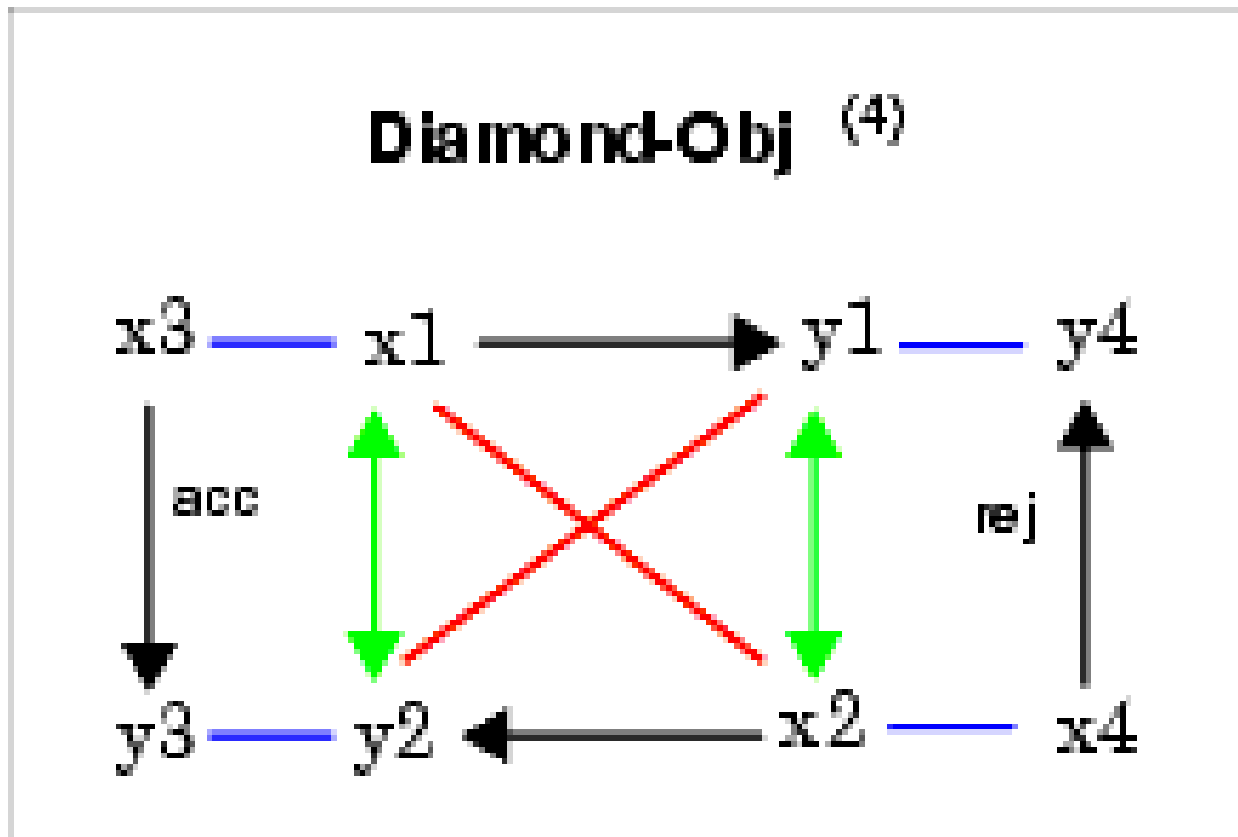
$$\left[\begin{array}{cc} \left(\text{verb}_1 \circ \text{substantiv}_1 \right) \\ \Pi \\ \left(\text{verb}_2 \circ \text{substantiv}_2 \right) \end{array} \right] \approx \left[\begin{array}{cc} \left(\text{verb}'_1 \circ \text{substantiv}'_1 \right) \\ \diamond \\ \left(\text{substantiv}'_2 \circ \text{verb}'_2 \right) \end{array} \right]$$

Diamond-Diagramm

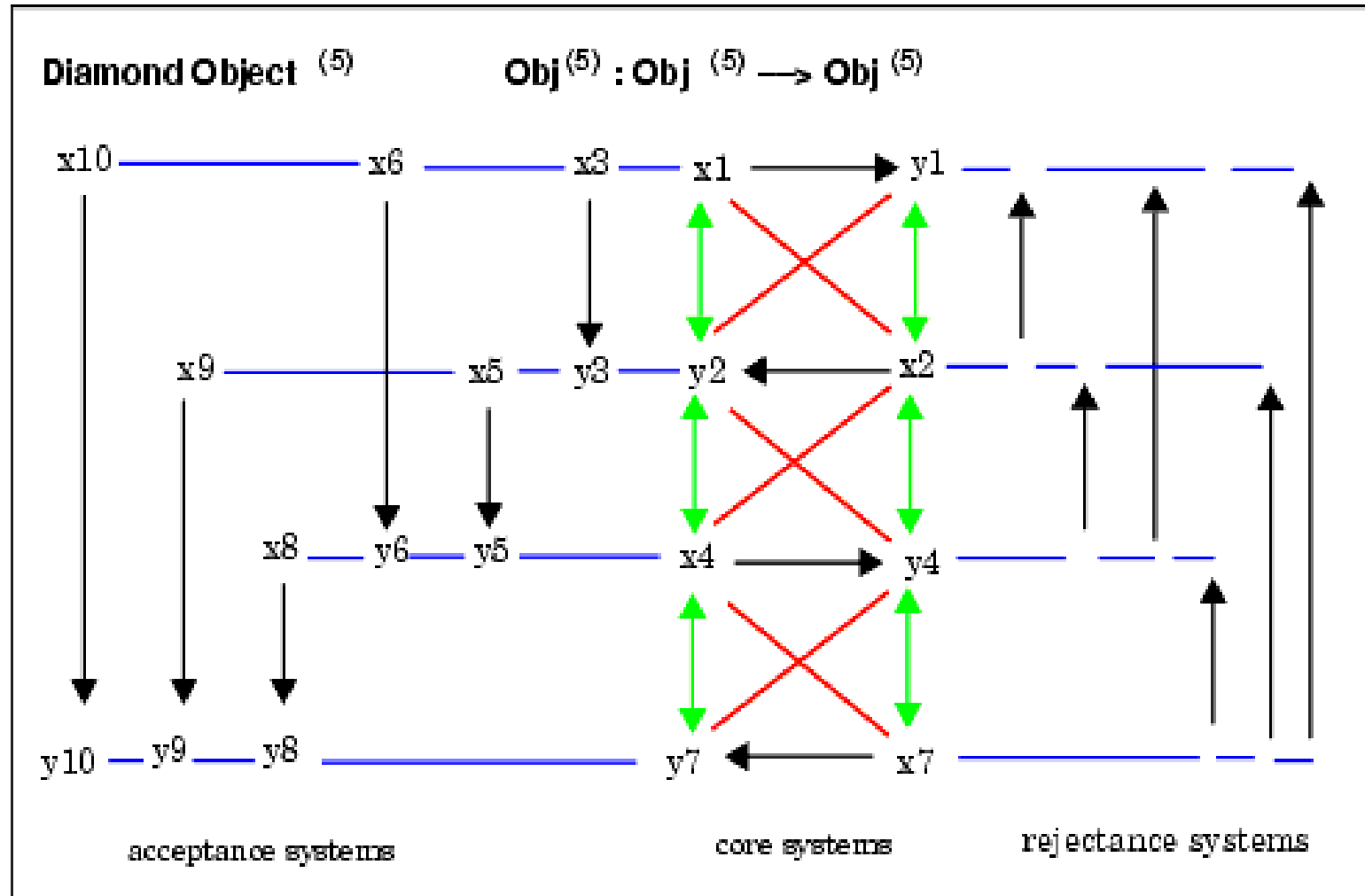
- Chiasmus als Vorstufe zum Diamond



Diamond-Diagramm

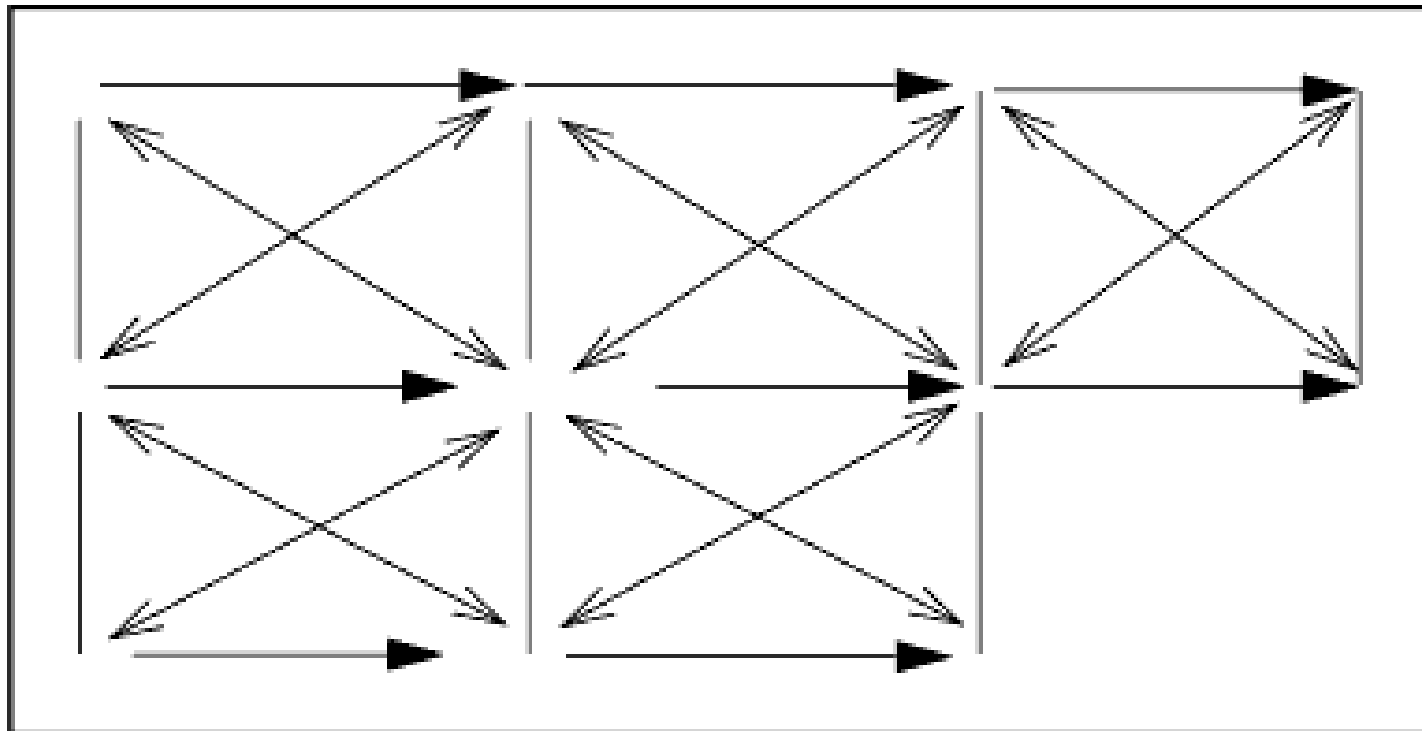


Akkretive Diamond-Verknüpfung



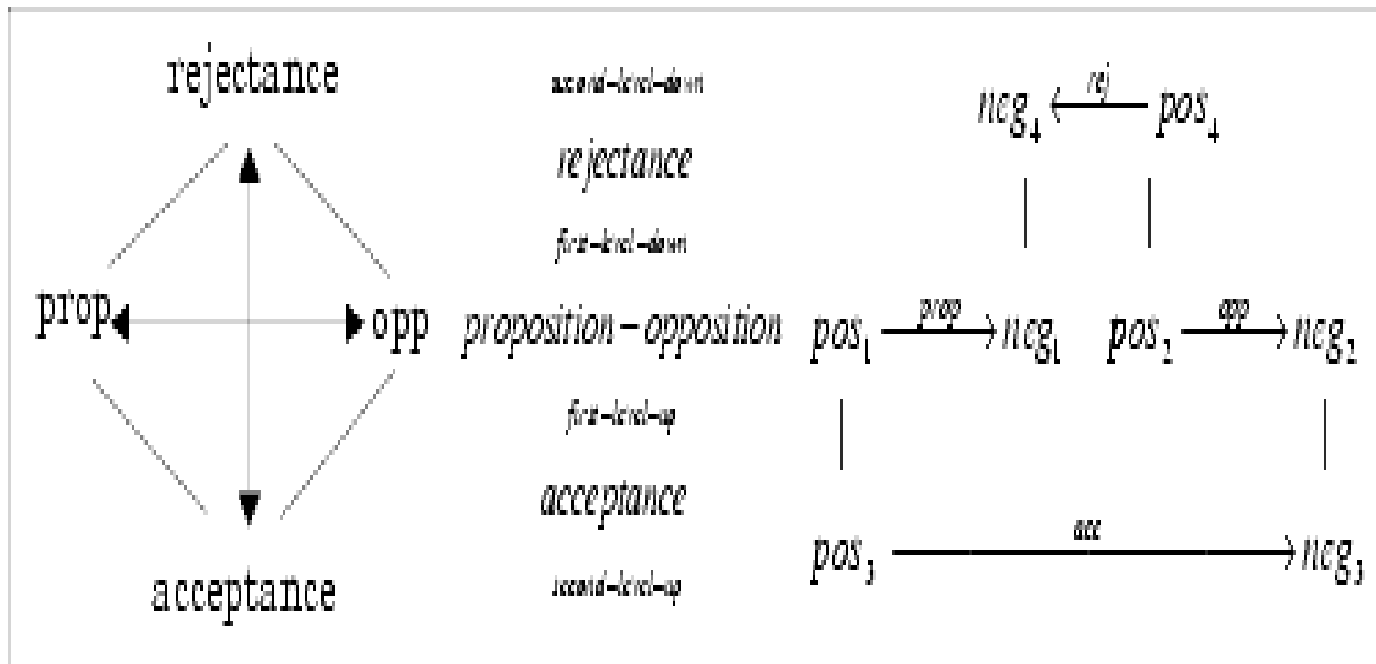
Diamond-Netze

- Kreuz und Quer



Diamond Strategie & Kategorie

- Diamond und logische Interpretation



Diamond-Grund-Formel

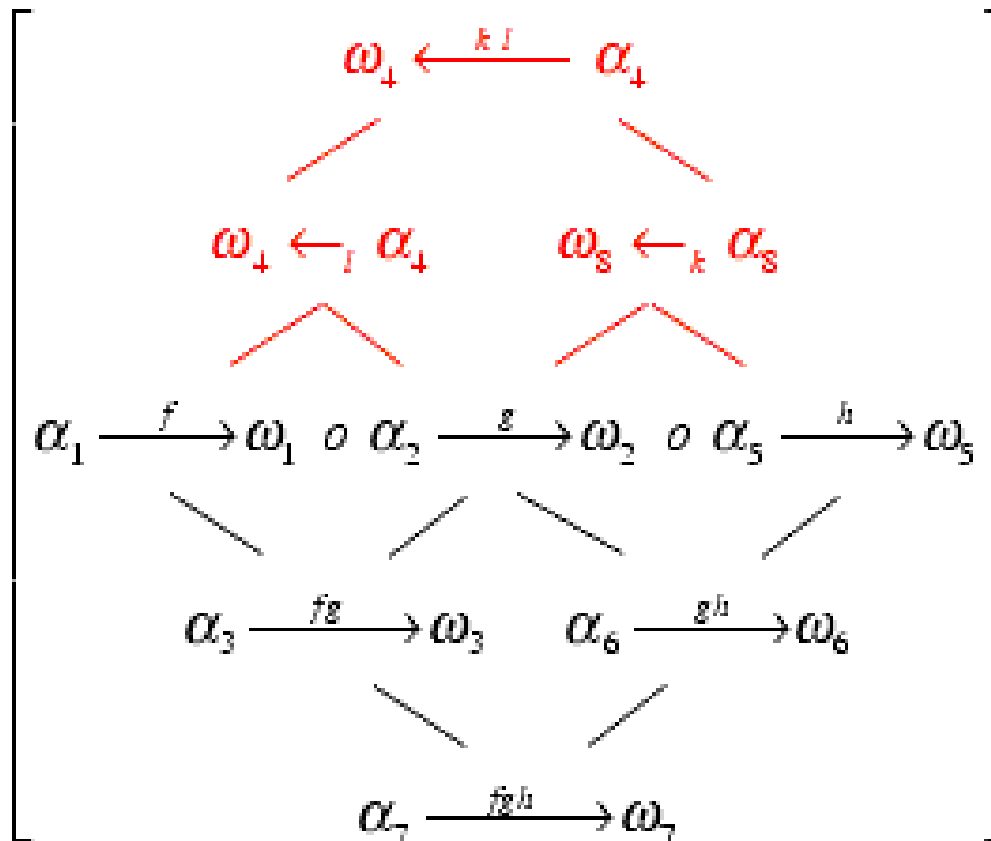
- Diamond basierend auf der Rückläufigkeit der vorläufigen Komposition
- Morphismen als Ereignisse mit Anfängen und Enden

$$\begin{array}{c}
 (B^1, \omega_4) \leftarrow (A^2, \alpha_4) \\
 \delta \\
 (A^1, \alpha_1) \xrightarrow{\text{morph}} (B^1, \omega_1) \circ (A^2, \alpha_2) \xrightarrow{\text{morph}} (B^2, \omega_2) \\
 \diagdown \qquad \qquad \qquad \diagup \varphi \\
 (A^1, \alpha_3) \xrightarrow{\text{morph}} (B^2, \omega_3)
 \end{array}$$

- Definition der Grundformel
- \circ : Komposition
- ϕ : Koinzidenz
- δ : Differenz Morphismen und Saltitionen

$$\left[\begin{array}{l} \circ = \begin{cases} \lambda(\omega_1) & \lambda(\alpha_2) \\ \lambda(A^2) & \lambda(B^1) \end{cases} \\ \varphi(A^1, \alpha_1) = \varphi(A^1, \alpha_3) \\ \varphi(B^2, \omega_2) = \varphi(B^2, \omega_3) \\ \delta((B^1, \omega_1) \circ (A^2, \alpha_2)) = \\ (\delta(B^1), \omega_4) \leftarrow (\delta(A^2), \alpha_4) \end{array} \right]$$

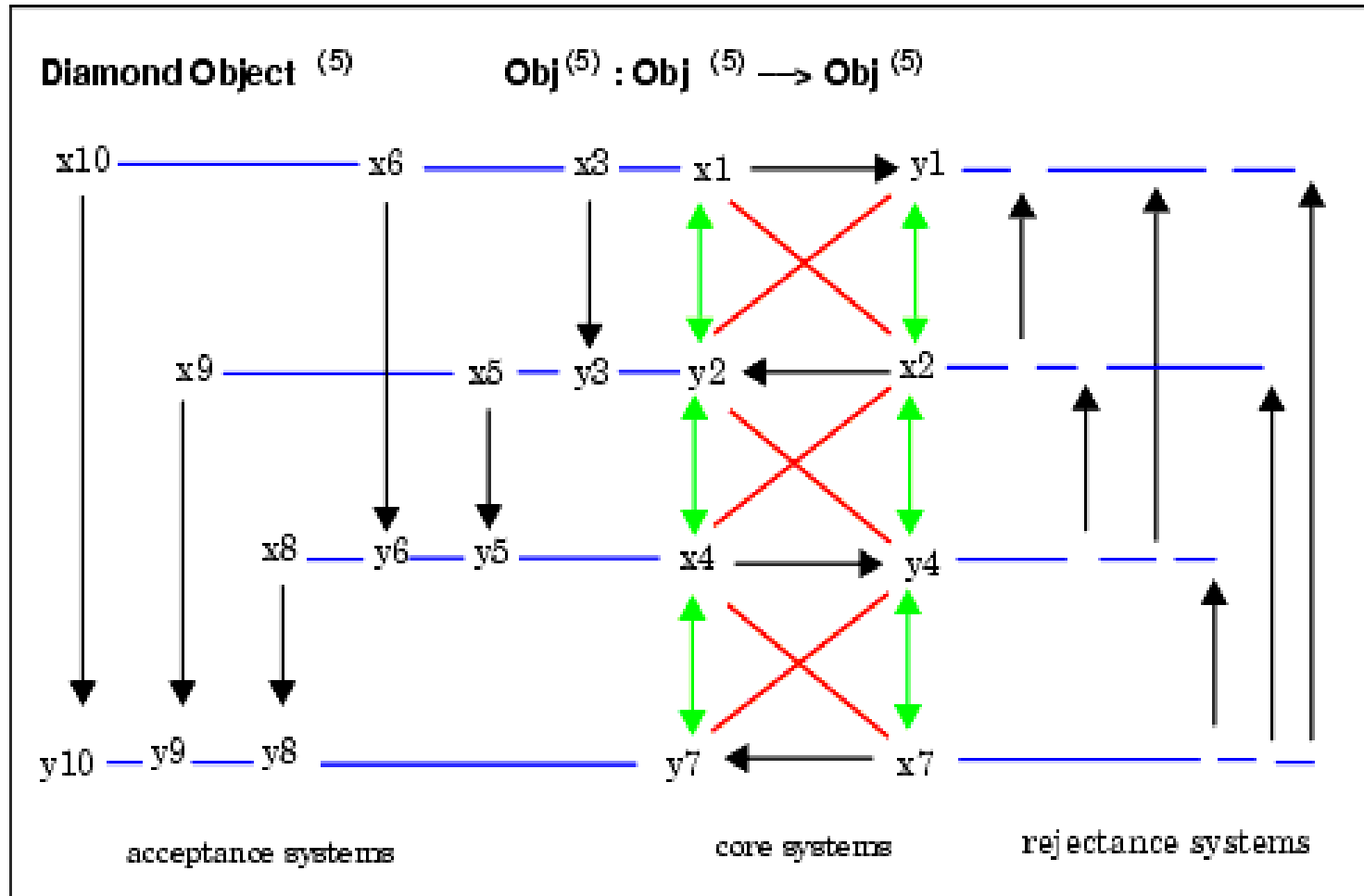
Composition versus Saltisation



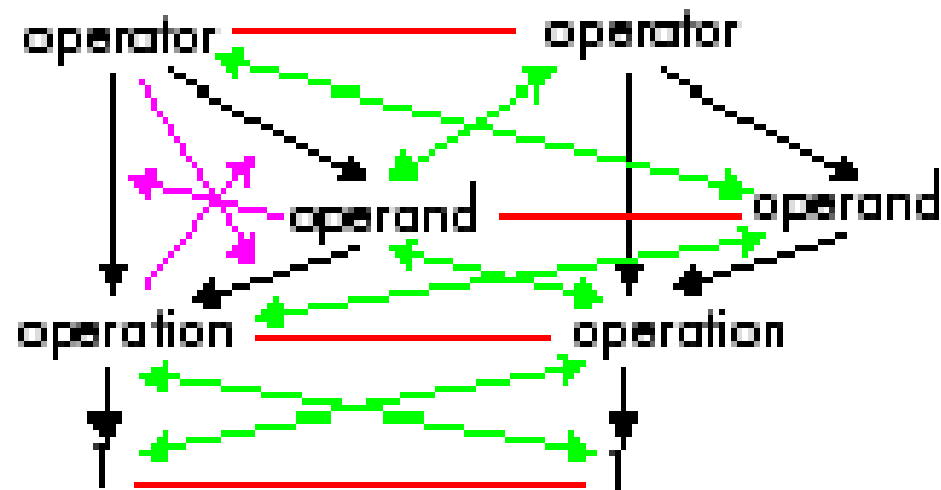
Proömialität, das Geviert, abwärts



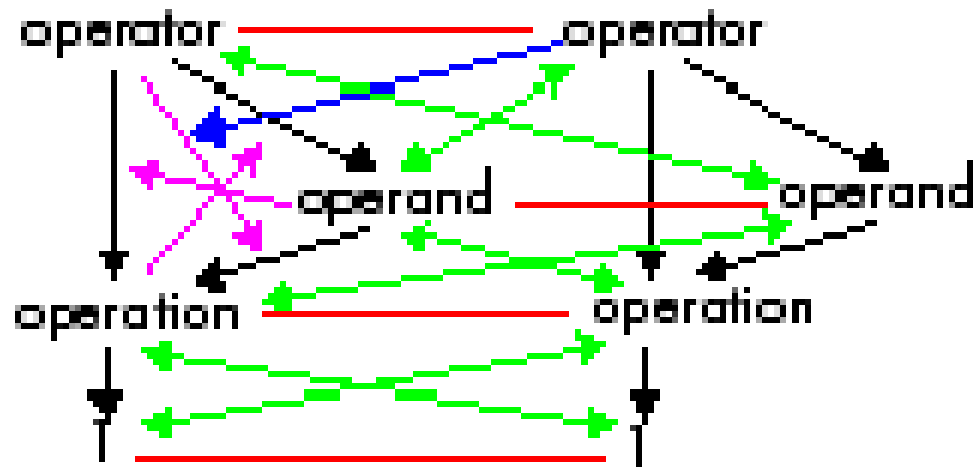
Diamond: das Geviert Auf und Abwärts



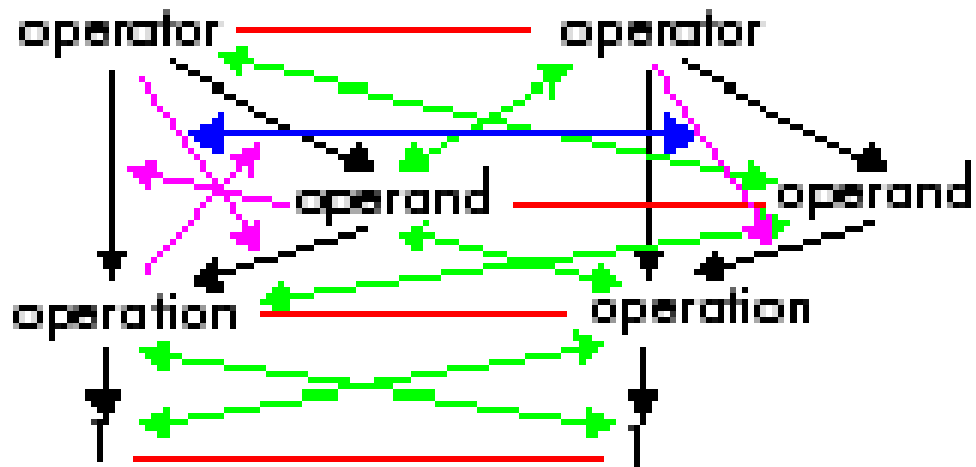
Subjektivität



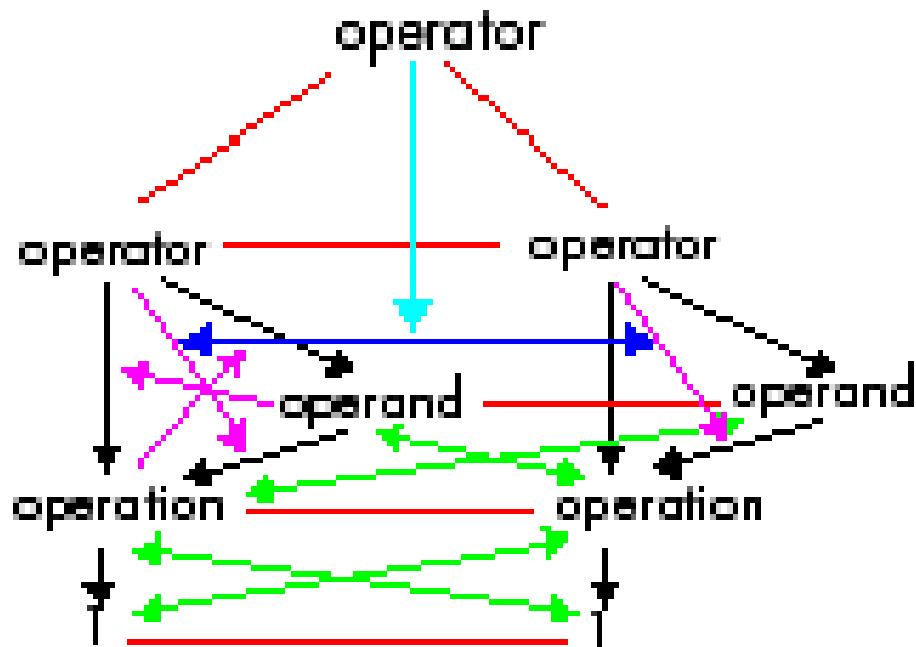
Intervention



Interlocution

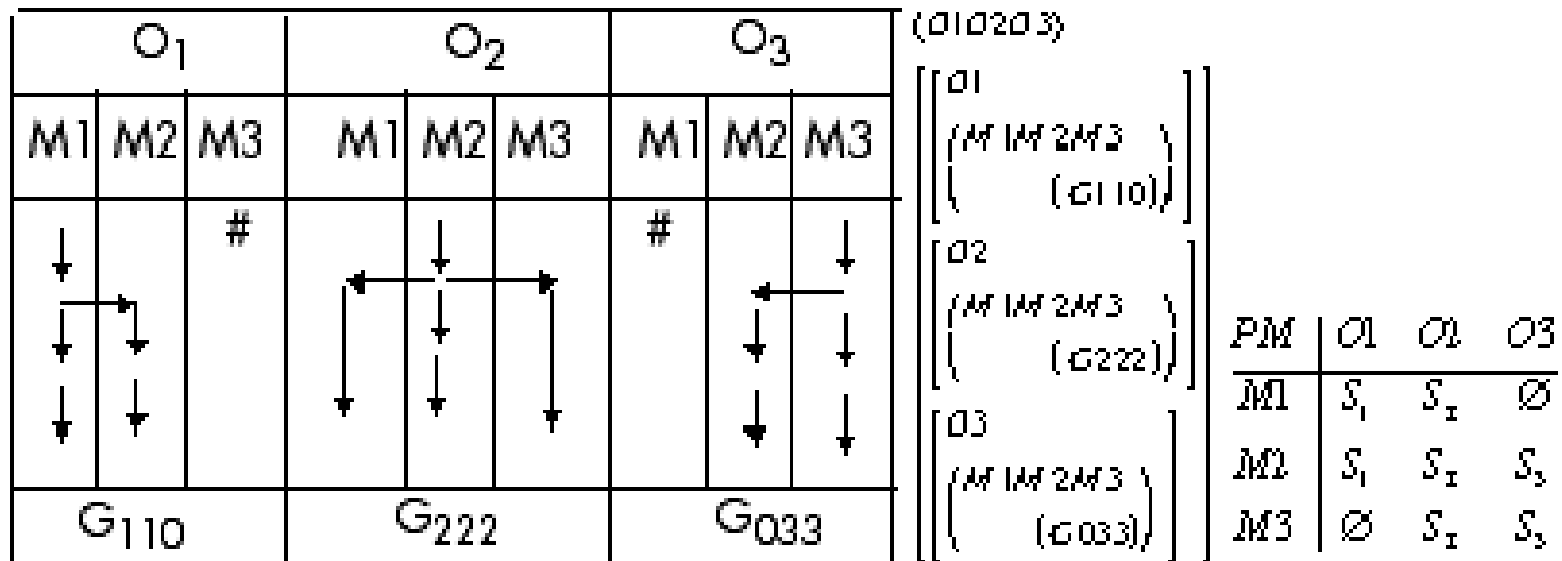


Interlocution-2



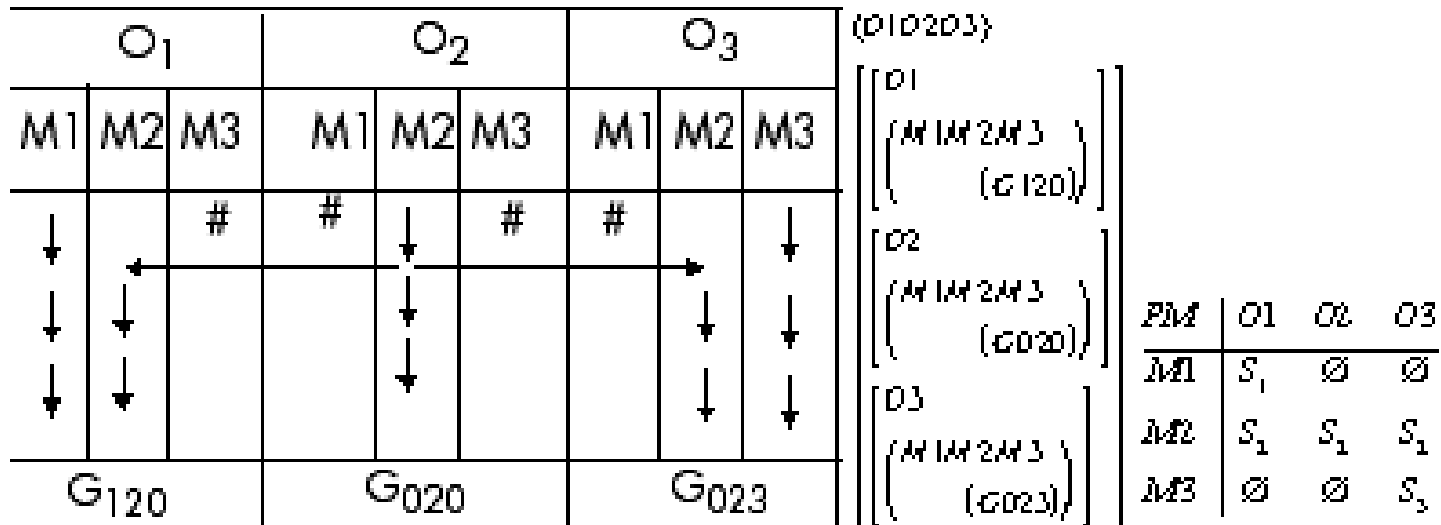
Diagramm, Klammer, Matrix

- Reflexion in sich

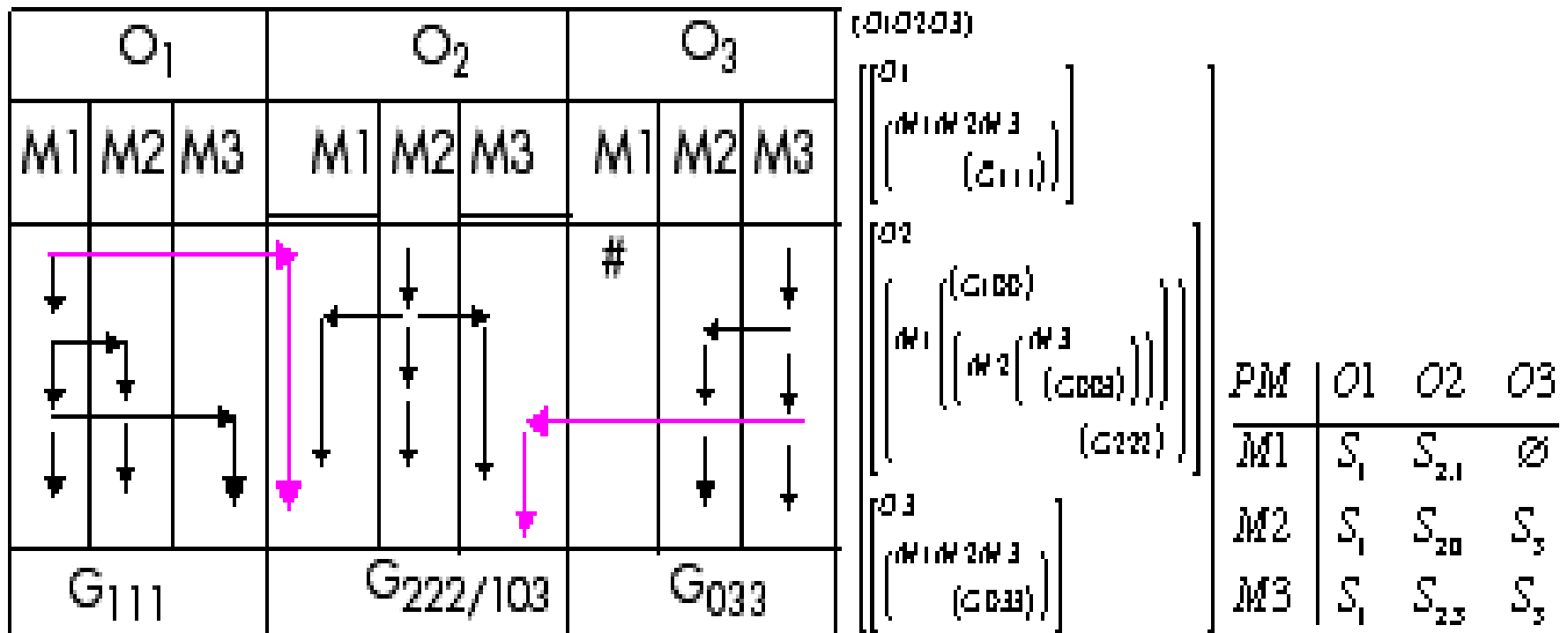


Diagramm, Klammer, Matrix

- Reflexion in anderes



Gemischte Pattern



ThinkArt Lab Diagrammatik

