

Prof. Dr. Alfred Toth

**Grundlegung einer  
qualitativen  
Kommunikationstheorie.**

**Bd. 8**



## Vorwort

Bekanntlich bildet die Kommunikationstheorie das Kerngebiet der Kybernetik der 60er Jahre. Das 1963 erschienene Buch von Shannon und Weaver ging von einer triadischen Kommunikationsrelation, bestehend aus Expedient (Sender bzw. Quelle), Kanal und Rezipient (Empfänger bzw. Senke) aus. Meyer-Eppler baute dann seine bekannte „Informationstheorie“ in der 2. Aufl. von 1969 auf dem Signalbegriff auf und bestimmte den Sender als logische Objekt- und den Empfänger als logische Subjektposition. Der Grund dafür ist viel trivialer als häufig angenommen wird: Es gibt eben emittierende (z.B. radioaktive), aber keine rezipierenden Objekte. Da es in der 2-wertigen aristotelischen Logik nur zwei Plätze, einen für das Objekt und einen für das Subjekt, gibt, werden einem belebten Subjekt als Sender daher beide logischen Positionen zugeschrieben. (Diese Annahme gipfelte später in Chomskys Sprachtheorie in der Konzeption eines „idealen Sprecher-Hörers“.) Aufgabe des Kanals ist es, die vom Objekt expedierten Signale zum Subjekt zu transportieren. Bense hatte bereits 1971 das Meyer-Epplersche signalitive Kommunikationsmodell übernommen und die logischen Positionen sowie den Kanal durch semiotische Kategorien ersetzt, indem er dem Sender den Objektbezug, dem Kanal den Mittelbezug und dem Empfänger den Interpretantenbezug zuwies. Auf der Basis der benseschen Semiotik ist es damit unmöglich, daß der das Subjekt semiotisch kodierende Interpretantenbezug als Sender fungiert.

Im vorliegenden und den folgenden Bänden konstruiere ich eine neue Kommunikationstheorie auf der Basis von vier statt drei Werten, so daß kein illegitimer logischer Kollaps von Objekt- und Subjektposition auftreten und der Interpretant als Sender fungieren kann. Dabei wird allerdings die triadische Struktur der informationstheoretischen Kommunikationstheorie beibehalten. Dies ergibt kombinatorisch jeweils 24 Basisschemata. Ferner wird die Permutation der Werte zugelassen. Dies führt zu einer sehr großen Anzahl von Kommunikationsrelationen, die selbst triadisch, d.h. vermittelt, präsentiert werden. Im Eingangskapitel reproduziere ich einen kürzlich veröffentlichten Aufsatz von mir, in dem die Isomorphie von Zahl, Zeichen und Objekt nachgewiesen wird. Die hier vorgelegte Kommunikationstheorie ist damit qualitativ und universell anwendbar. Ähnlich, wie ich es bereits in meiner „Theory of the Night“ (2016) mit Paaren von Kreationsschemata getan hatte, beschränke ich mich auch bei den Tripeln von Kommunikationsschemata nicht auf die rein quantitative Darstellung durch die natürlichen Zahlen,

sondern präsentiere die Ergebnisse in den selben 8 Zahlenarten, die ich bereits in meinem erwähnten Buche sowie zwei an es anschließenden Aufsätzen getan hatte. Folgende Übersicht orientiert über die in den einzelnen Bänden verwandten arithmetischen „Dialekte“:

- Bd. 1 Peano-Zahlen
- Bd. 2 Surreale Zahlen (Conway-Zahlen)
- Bd. 3 Eisenstein-Zahlen
- Bd. 4 Quadralektische Zahlen
- Bd. 5 Systemische Zahlen
- Bd. 6 Regionale Zahlen
- Bd. 7 Relationale Zahlen
- Bd. 8 Qualitative Zahlen

Diese 8 Zahlen zeigen in ansteigender Folge die zunehmenden Grade an Qualität der Zahlen zwischen den rein quantitativen Peano-Zahlen und den qualitativen Zahlen. Damit stellen die 8 Bände der „Grundlegung“ eine kohärente und komplette Basis für die Implementierung der kommunikativen Tripelfunktionen in der Form von zellulären Automaten dar. D.h. die Semiotik hat sich von der Klassifikation der Welt durch statische Zeichen zu einem Organismus entwickelt, mit dem auf 8 verschiedene Weise das komplexe dynamische Verhalten von Semiosen dargestellt werden können wird (vgl. etwa Kaehr 2015).

Dieses aus 8 Teilbänden bestehende Werk sei denjenigen unter meinen Lehrern und Fachkollegen gewidmet, denen mein eigenes Werk am meisten verdankt (in alphabetischer Ordnung): Prof. Dr. Max Bense (1910-1990), Prof. Dr. Gotthard Günther (1900-1984), Prof. Dr. Rudolf Kaehr (1942-2016) und meinem Freund Dr. Engelbert Kronthaler.

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Prof. Dr. Alfred Toth

## Zahlen, Zeichen und Objekte

Bekanntlich hatte Bense bereits (1975, S. 168 ff.) gezeigt, daß das Zeichen sich mittels der Peano-Axiome einführen läßt, wobei die Initialzahl der Folge, d.h. entweder die 0 oder 1, als „Präsentant“ und der Nachfolger einer Peanozahl  $n$  ( $n > 0$  bzw.  $n > 1$ ) als „Repräsentant“ fungiert. Später (1986, S. 192 ff.) hatte Bense dann sogar aufgezeigt, daß sich die von Peirce bereits 1881 aufgestellten „Axioms of Number“ als eine Voläuferversion der Peano-Axiome interpretieren lassen und daß die peircesche Zeichenrelation sich ebenfalls mit Hilfe der Axioms of Number einführen läßt. Im Jahre 1981 führte Bense die Fundamentalkategorien in numerischer Notation als „Primzeichen“ bzw. „Zeichenzahlen“ ein (Bense 1981, S. 17 ff.)

Z (1., 2., 3.).

Wir haben damit

Zahl  $\cong$  Zeichen

1  $\cong$  1.

2  $\cong$  2.

3  $\cong$  3.

Damit bleibt die Frage nach dem Objekt, denn wir hatten ja in einer sehr langen Reihe von Arbeiten seit 2008 gezeigt, daß das Zeichen dem Objekt ebenfalls isomorph ist. Hier stellen sich vom Standpunkt der peirceschen Semiotik zwei Probleme:

1. Obwohl Bense das Zeichen ausdrücklich als „Metaobjekt“ eingeführt hatte (Bense 1967, S. 9), was also ein Objekt außerhalb des „Universums der Zeichen“ voraussetzt, spielt das Objekt in fast der gesamten späteren Semiotik keine Rolle mehr. Vielmehr ist die bensesche Semiotik als Pansemiotik im Sinne der Gültigkeit der modelltheoretischen Sätze der Extensivität, Monotonie und Abgeschlossenheit (vgl. Schwabhäuser 1971, S. 40) konzipiert, d.h. das Objekt taucht zwar ein „bezeichnetes Objekt“ bzw. als „Präsentamen“ auf, aber nicht als Objekt außerhalb des „semiotischen Raumes“. Eine Ausnahme bildet lediglich eine Konzeption, die Bense 1975 vorgelegt, später aber nicht mehr aufgenommen hatte: Dort wird das Objekt als 0-relationales Zeichen definiert und dem „semiotischen Raum“ ein „ontischer Raum“ gegenübergestellt. Allerdings

ist dieses „vorthetische“ oder „disponible“ Objekt damit aber auch eher ein ontologisches als ein ontisches Objekt, denn es ja bereits zur Zeichensetzung intendiert, also zu der sich bereits aus Bense (1967, S. 9) ableitbaren Funktion der „Metaobjektivation“

$\mu: O^\circ \rightarrow Z,$

worin allerdings also

$O^\circ \neq \Omega$

gilt, d.h.  $\mu$  hat nichts mit der Dichotomie

$D = (\Omega, Z)$

zu tun.

Der Objektbegriff taucht explizit lediglich in der nur auf 1 Seite von Bense knapp skizzierten „Raumsemiotik“ auf (vgl. Bense/Walther 1973, S. 80). Dort wird das Objekt zwar in iconisch fungierende Systeme, indexikalisch fungierende Abbildungen und symbolisch fungierende Repertoires subkategorisiert, aber diese drei Arten von Objekten werden sogleich als Subzeichen des semiotischen Objektbezuges eingeführt. Einen Mittel- und einen Interpretantenbezug des „Raumzeichens“ gibt es nicht. Allerdings scheinen uns die drei von Bense unterschiedenen Objekte als „Fundamentalkategorien“ von  $\Omega$  brauchbar, d.h. JEDES REALE, D.H. ONTISCHE OBJEKT IST ENTWEDER EIN SYSTEM, EINE ABBILDUNG ODER EIN REPERTOIRE. Da die „generative“ (Bense) Relation innerhalb der Trichotomien jeder Triade in Richtung maximaler Abstraktion verläuft (im Mittelbezug vom Quali- über das Sin- zum Legizeichen, im Objektbezug vom Icon über den Index zum Symbol, und im Interpretantenbezug von Rhema über das Dicient zum Argument, wollen wir als Symbole für die Fundamentalkategorien des Objektes

Sys :=  $\square$

Abb :=  $\rightarrow$

Rep =  $—$

vereinbaren. Wir erhalten dann folgendes Isomorphieschema von Zahl, Zeichen und Objekt

Zahl		Zeichen		Objekt
1	$\cong$	1.	$\cong$	$\square$
2	$\cong$	2.	$\cong$	$\rightarrow$
3	$\cong$	3.	$\cong$	$—$

und damit natürlich

$$\mathbb{Z}_a \cong \mathbb{Z} \cong \Omega.$$

Vermutlich ist es sogar so, DAß DIESE DREI ENTITÄTEN, DIE ZAHL, DAS ZEICHEN UND DAS OBJEKT, DIE TIEFSTEN FUNDAMENTALEN BAUSTEINE EINES „UNIVERSUMS DES GEISTES“ DARSTELLEN.

## Kommunikationstheorie

Wir gehen aus von der Menge von 4 Elementen

$$P = (\mathbf{1}, \mathbf{2}, \mathbf{3}, \mathbf{4})$$

die auf 3 Plätze distribuiert werden können. Dann gibt es genau 24 mögliche Kombinationen.

$$1 \quad (\mathbf{1} \rightarrow \mathbf{2} \rightarrow \mathbf{3})$$

$$2 \quad (\mathbf{1} \rightarrow \mathbf{2} \rightarrow \mathbf{4})$$

$$3 \quad (\mathbf{1} \rightarrow \mathbf{3} \rightarrow \mathbf{2})$$

$$4 \quad (\mathbf{1} \rightarrow \mathbf{3} \rightarrow \mathbf{4})$$

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$$19 \quad (\mathbf{4} \rightarrow \mathbf{1} \rightarrow \mathbf{2})$$



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Nach Kanälen geordnet:

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$(4 \rightarrow 2 \rightarrow 1) \rightarrow (4 \rightarrow 2 \rightarrow 3)$   
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## 2. Mediale Kanäle

2.1. Chreode = (1 → 2 → 3)

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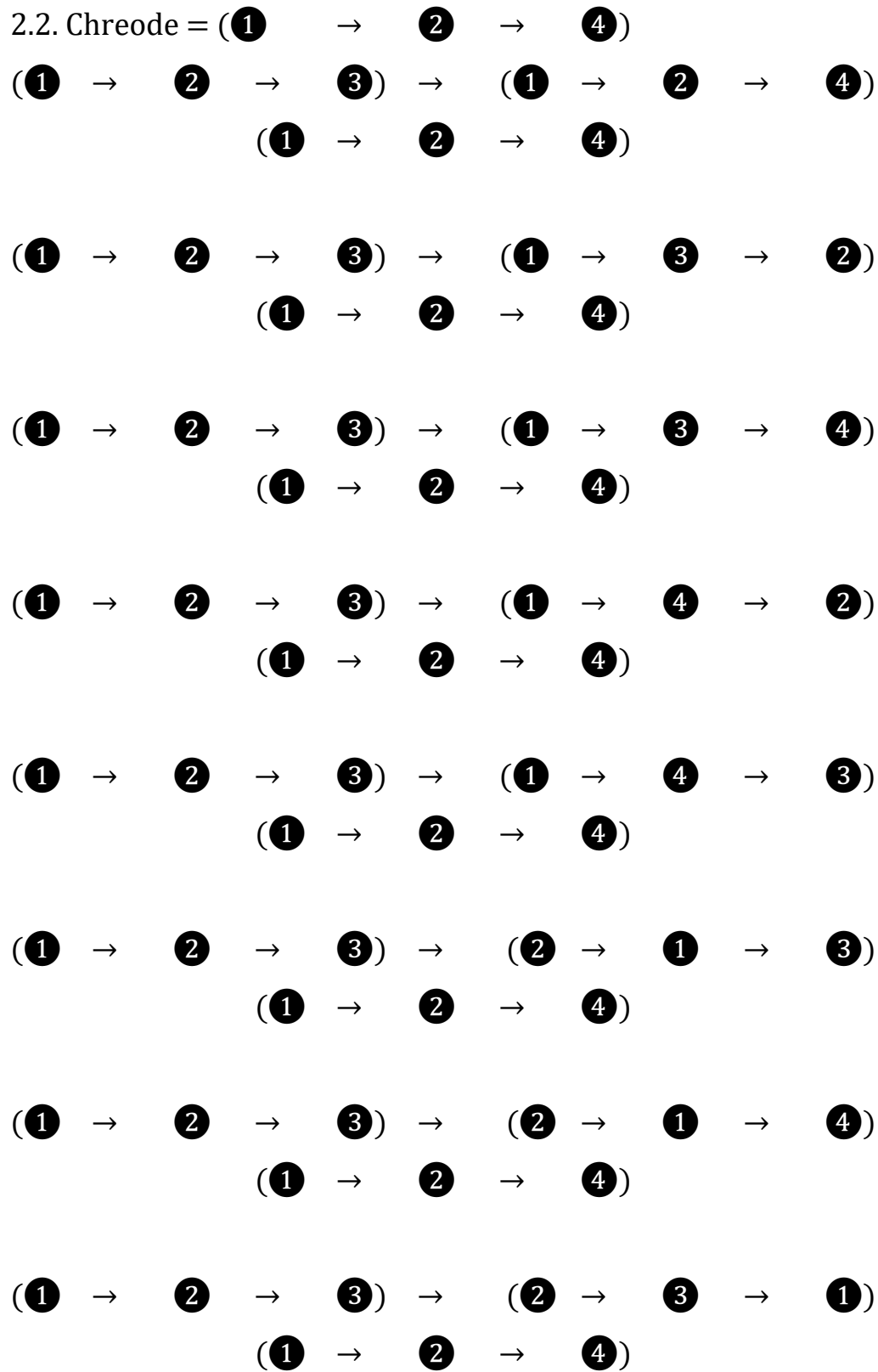
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(4 → 2 → 3) → (4 → 3 → 1)  
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(3 → 4 → 2) → (4 → 1 → 2)  
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(4 → 1 → 2) → (4 → 3 → 1)  
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2.3. Chreode = (3 → 2 → 1)

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$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 1) \\ & & & & & & & & & & & (3 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$

$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & & & & & & (3 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$

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$$\begin{array}{ccccccc} (4 & \rightarrow & 3 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & & & & & & (3 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$

2.4. Chreode = (3 → 2 → 4)

(1 → 2 → 3) → (1 → 2 → 4)  
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$$\begin{array}{l} (1 \rightarrow 2 \rightarrow 3) \rightarrow (2 \rightarrow 3 \rightarrow 4) \\ (3 \rightarrow 2 \rightarrow 4) \end{array}$$

$$\begin{array}{l} (1 \rightarrow 2 \rightarrow 3) \rightarrow (2 \rightarrow 4 \rightarrow 1) \\ (3 \rightarrow 2 \rightarrow 4) \end{array}$$

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$$\begin{array}{l} (1 \rightarrow 2 \rightarrow 3) \rightarrow (3 \rightarrow 1 \rightarrow 2) \\ (3 \rightarrow 2 \rightarrow 4) \end{array}$$

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$$\begin{array}{l} (1 \rightarrow 2 \rightarrow 3) \rightarrow (3 \rightarrow 2 \rightarrow 1) \\ (3 \rightarrow 2 \rightarrow 4) \end{array}$$

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(1 → 2 → 3) → (3 → 4 → 2)  
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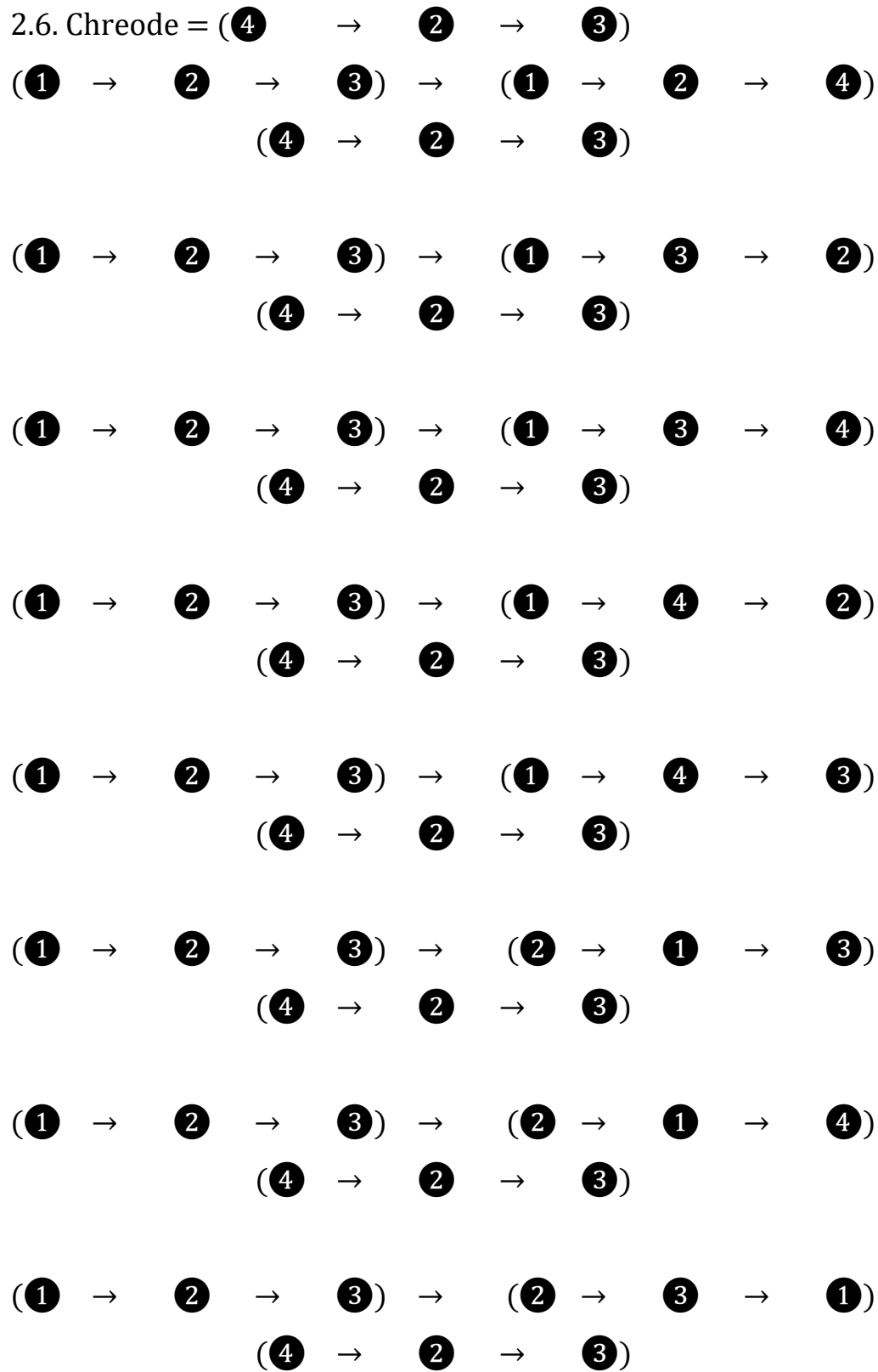
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$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 1) \\ & & & & & & (4 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$

$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & (4 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$

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$$\begin{array}{ccccccc} (4 & \rightarrow & 3 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & (4 & \rightarrow & 2 & \rightarrow & 1) \end{array}$$



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### 3. Objektale Kanäle

3.1. Chreode = (1 → 3 → 2)

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(4 → 2 → 3) → (4 → 3 → 1)  
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$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & & & & & & (2 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

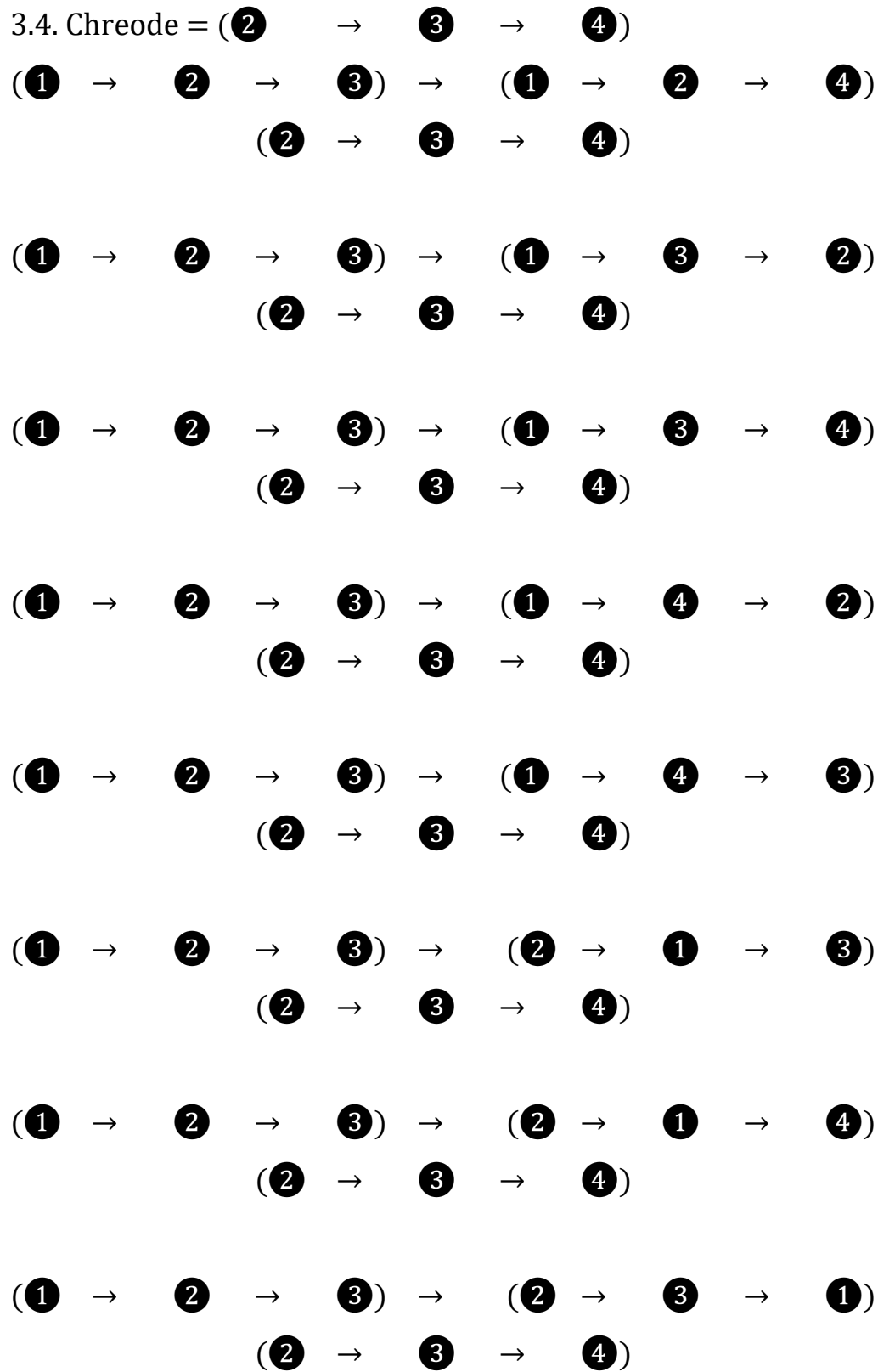
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$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 1) \\ & & & & & & & & & & & (2 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & & & & & & (2 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

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$$\begin{array}{ccccccc} (4 & \rightarrow & 3 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & & & & & & (2 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$











(1 → 2 → 4) → (2 → 4 → 3)  
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$$\begin{aligned} & (\mathbf{1} \rightarrow \mathbf{4} \rightarrow \mathbf{3}) \rightarrow (\mathbf{4} \rightarrow \mathbf{2} \rightarrow \mathbf{3}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{1} \rightarrow \mathbf{4} \rightarrow \mathbf{3}) \rightarrow (\mathbf{4} \rightarrow \mathbf{3} \rightarrow \mathbf{1}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{1} \rightarrow \mathbf{4} \rightarrow \mathbf{3}) \rightarrow (\mathbf{4} \rightarrow \mathbf{3} \rightarrow \mathbf{2}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{3}) \rightarrow (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{4}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{3}) \rightarrow (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{1}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{3}) \rightarrow (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{3}) \rightarrow (\mathbf{2} \rightarrow \mathbf{4} \rightarrow \mathbf{1}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$

$$\begin{aligned} & (\mathbf{2} \rightarrow \mathbf{1} \rightarrow \mathbf{3}) \rightarrow (\mathbf{2} \rightarrow \mathbf{4} \rightarrow \mathbf{3}) \\ & \quad (\mathbf{2} \rightarrow \mathbf{3} \rightarrow \mathbf{4}) \end{aligned}$$











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(2 → 4 → 3) → (4 → 3 → 1)  
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(3 → 1 → 2) → (4 → 1 → 2)  
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(3 → 1 → 2) → (4 → 1 → 3)  
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(3 → 1 → 2) → (4 → 2 → 1)  
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(3 → 1 → 2) → (4 → 2 → 3)  
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(3 → 1 → 2) → (4 → 3 → 1)  
(2 → 3 → 4)

(3 → 1 → 2) → (4 → 3 → 2)  
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(3 → 1 → 4) → (3 → 2 → 1)  
(2 → 3 → 4)

(3 → 1 → 4) → (3 → 2 → 4)  
(2 → 3 → 4)

(3 → 1 → 4) → (3 → 4 → 1)  
(2 → 3 → 4)

(3 → 1 → 4) → (3 → 4 → 2)  
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(3 → 1 → 4) → (4 → 1 → 2)  
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(3 → 1 → 4) → (4 → 1 → 3)  
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(3 → 1 → 4) → (4 → 2 → 1)  
(2 → 3 → 4)

(3 → 1 → 4) → (4 → 2 → 3)  
(2 → 3 → 4)

(3 → 1 → 4) → (4 → 3 → 1)  
(2 → 3 → 4)

(3 → 1 → 4) → (4 → 3 → 2)  
(2 → 3 → 4)

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(3 → 2 → 1) → (3 → 2 → 4)  
(2 → 3 → 4)

(3 → 2 → 1) → (3 → 4 → 1)  
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(3 → 2 → 1) → (3 → 4 → 2)  
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(3 → 2 → 1) → (4 → 1 → 2)  
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(3 → 2 → 1) → (4 → 2 → 1)  
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(3 → 2 → 1) → (4 → 3 → 1)  
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(3 → 2 → 1) → (4 → 3 → 2)  
(2 → 3 → 4)

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(3 → 2 → 4) → (3 → 4 → 1)  
(2 → 3 → 4)

(3 → 2 → 4) → (3 → 4 → 2)  
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(3 → 2 → 4) → (4 → 1 → 2)  
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(3 → 2 → 4) → (4 → 1 → 3)  
(2 → 3 → 4)

(3 → 2 → 4) → (4 → 2 → 1)  
(2 → 3 → 4)

(3 → 2 → 4) → (4 → 2 → 3)  
(2 → 3 → 4)

(3 → 2 → 4) → (4 → 3 → 1)  
(2 → 3 → 4)

(3 → 2 → 4) → (4 → 3 → 2)  
(2 → 3 → 4)

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(3 → 4 → 1) → (3 → 4 → 2)  
(2 → 3 → 4)

(3 → 4 → 1) → (4 → 1 → 2)  
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(3 → 4 → 1) → (4 → 2 → 1)  
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(3 → 4 → 1) → (4 → 2 → 3)  
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(3 → 4 → 1) → (4 → 3 → 1)  
(2 → 3 → 4)

(3 → 4 → 1) → (4 → 3 → 2)  
(2 → 3 → 4)

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(3 → 4 → 2) → (4 → 1 → 2)  
(2 → 3 → 4)

(3 → 4 → 2) → (4 → 1 → 3)  
(2 → 3 → 4)

(3 → 4 → 2) → (4 → 2 → 1)  
(2 → 3 → 4)

(3 → 4 → 2) → (4 → 2 → 3)  
(2 → 3 → 4)

(3 → 4 → 2) → (4 → 3 → 1)  
(2 → 3 → 4)

(3 → 4 → 2) → (4 → 3 → 2)  
(2 → 3 → 4)

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(4 → 1 → 2) → (4 → 1 → 3)  
(2 → 3 → 4)

(4 → 1 → 2) → (4 → 2 → 1)  
(2 → 3 → 4)

(4 → 1 → 2) → (4 → 2 → 3)  
(2 → 3 → 4)





$$\begin{array}{ccccccc} (\textcircled{4} & \rightarrow & \textcircled{2} & \rightarrow & \textcircled{1}) & \rightarrow & (\textcircled{4} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{2}) \\ & & & & & & & & (\textcircled{2} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{4}) \end{array}$$

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$$\begin{array}{ccccccc} (\textcircled{4} & \rightarrow & \textcircled{2} & \rightarrow & \textcircled{3}) & \rightarrow & (\textcircled{4} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{1}) \\ & & & & & & & & (\textcircled{2} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{4}) \end{array}$$

$$\begin{array}{ccccccc} (\textcircled{4} & \rightarrow & \textcircled{2} & \rightarrow & \textcircled{3}) & \rightarrow & (\textcircled{4} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{2}) \\ & & & & & & & & (\textcircled{2} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{4}) \end{array}$$

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$$\begin{array}{ccccccc} (\textcircled{4} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{1}) & \rightarrow & (\textcircled{4} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{2}) \\ & & & & & & & & (\textcircled{2} & \rightarrow & \textcircled{3} & \rightarrow & \textcircled{4}) \end{array}$$

3.5. Chreode = (4 → 3 → 1)

(1 → 2 → 3) → (1 → 2 → 4)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (1 → 3 → 2)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (1 → 3 → 4)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (1 → 4 → 2)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (1 → 4 → 3)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (2 → 1 → 3)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (2 → 1 → 4)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (2 → 3 → 1)  
                   (4 → 3 → 1)

(1 → 2 → 3) → (2 → 3 → 4)  
(4 → 3 → 1)

(1 → 2 → 3) → (2 → 4 → 1)  
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(1 → 2 → 3) → (3 → 1 → 2)  
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(4 → 3 → 1)

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(1 → 2 → 4) → (1 → 3 → 2)  
(4 → 3 → 1)



(1 → 2 → 4) → (2 → 4 → 3)  
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(1 → 3 → 2) → (2 → 1 → 3)  
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(1 → 4 → 2) → (2 → 1 → 4)  
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(2 → 1 → 3) → (3 → 1 → 2)  
(4 → 3 → 1)

(2 → 1 → 3) → (3 → 1 → 4)  
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(2 → 1 → 4) → (3 → 1 → 2)  
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(2 → 3 → 1) → (3 → 1 → 4)  
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(2 → 4 → 3) → (3 → 2 → 1)  
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(4 → 3 → 1)

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(3 → 1 → 2) → (3 → 1 → 4)  
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(3 → 1 → 2) → (3 → 2 → 1)  
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(3 → 1 → 2) → (3 → 2 → 4)  
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(3 → 1 → 2) → (3 → 4 → 2)  
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(3 → 1 → 4) → (3 → 4 → 2)  
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(3 → 2 → 1) → (3 → 2 → 4)  
(4 → 3 → 1)

(3 → 2 → 1) → (3 → 4 → 1)  
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(4 → 3 → 1)

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(3 → 2 → 4) → (3 → 4 → 1)  
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(4 → 3 → 1)

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(4 → 3 → 1)

(3 → 2 → 4) → (4 → 3 → 2)  
(4 → 3 → 1)

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(3 → 4 → 2) → (4 → 1 → 3)  
(4 → 3 → 1)

(3 → 4 → 2) → (4 → 2 → 1)  
(4 → 3 → 1)

(3 → 4 → 2) → (4 → 2 → 3)  
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(4 → 3 → 1)

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(4 → 1 → 2) → (4 → 1 → 3)  
(4 → 3 → 1)

(4 → 1 → 2) → (4 → 2 → 1)  
(4 → 3 → 1)

(4 → 1 → 2) → (4 → 2 → 3)  
(4 → 3 → 1)



$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & (4 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

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$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 1) \\ & & & & & & (4 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

$$\begin{array}{ccccccc} (4 & \rightarrow & 2 & \rightarrow & 3) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & (4 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

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$$\begin{array}{ccccccc} (4 & \rightarrow & 3 & \rightarrow & 1) & \rightarrow & (4 & \rightarrow & 3 & \rightarrow & 2) \\ & & & & & & (4 & \rightarrow & 3 & \rightarrow & 1) \end{array}$$

3.6. Chreode = (4 → 3 → 2)

(1 → 2 → 3) → (1 → 2 → 4)  
(4 → 3 → 2)

(1 → 2 → 3) → (1 → 3 → 2)  
(4 → 3 → 2)

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(4 → 3 → 2)

(1 → 2 → 3) → (2 → 3 → 1)  
(4 → 3 → 2)

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(4 → 3 → 2)

(1 → 2 → 3) → (2 → 4 → 1)  
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(1 → 2 → 3) → (3 → 1 → 2)  
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(1 → 2 → 3) → (3 → 1 → 4)  
(4 → 3 → 2)

(1 → 2 → 3) → (3 → 2 → 1)  
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(1 → 2 → 3) → (3 → 4 → 1)  
(4 → 3 → 2)

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(1 → 2 → 3) → (4 → 1 → 2)  
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(1 → 2 → 3) → (4 → 2 → 1)  
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(1 → 2 → 3) → (4 → 3 → 1)  
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(1 → 3 → 2) → (1 → 3 → 4)  
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(4 → 3 → 2)

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$$\begin{array}{ccccccc} (4) & \rightarrow & 3 & \rightarrow & (1) & \rightarrow & (4) \rightarrow 3 \rightarrow 2 \\ & & & & & & (4) \rightarrow 3 \rightarrow 2 \end{array}$$

## 4. Interpretative Kanäle

4.1. Chreode = (1 → 4 → 2)

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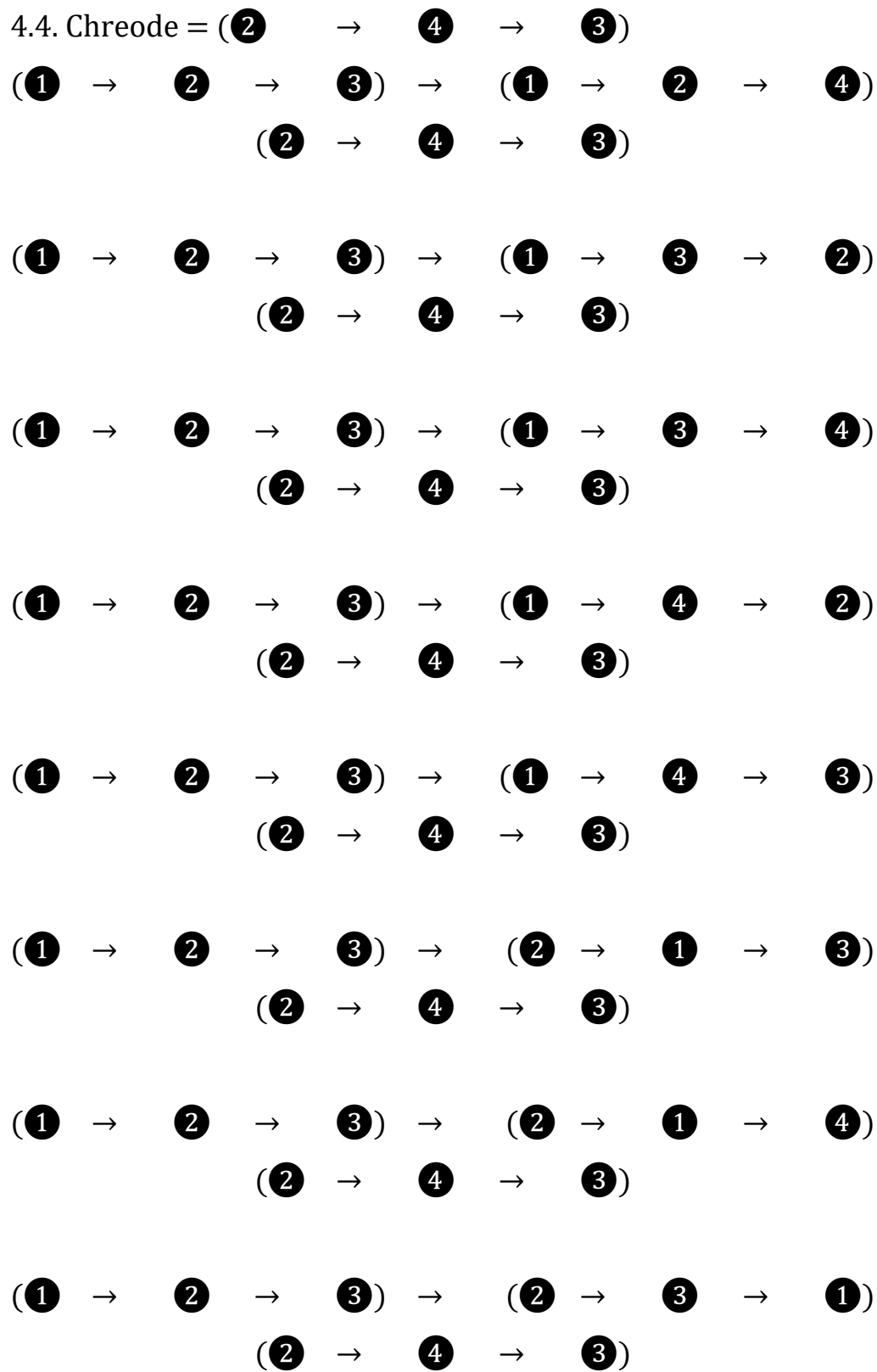
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(3 → 4 → 2) → (4 → 3 → 2)  
(3 → 4 → 2)

---

(4 → 1 → 2) → (4 → 1 → 3)  
(3 → 4 → 2)

(4 → 1 → 2) → (4 → 2 → 1)  
(3 → 4 → 2)

(4 → 1 → 2) → (4 → 2 → 3)  
(3 → 4 → 2)





(4 → 2 → 1) → (4 → 3 → 2)  
(3 → 4 → 2)

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(4 → 2 → 3) → (4 → 3 → 1)  
(3 → 4 → 2)

(4 → 2 → 3) → (4 → 3 → 2)  
(3 → 4 → 2)

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(4 → 3 → 1) → (4 → 3 → 2)  
(3 → 4 → 2)

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