

Prof. Dr. Alfred Toth

Grundlegung einer polykontexturalen Semiotik

1. Die von Bense (1975, S. 35 ff.) eingeführte 3×3 -Matrix enthält bekanntlich in den Zeilen die Triaden und in den Spalten die Trichotomien

	.1	.2	.3
1.	1.1	1.2	1.3
2.	2.1	2.2	2.3
3.	3.1	3.2	3.3

Da es sich hier um eine quadratische Matrix handelt, ist natürlich $n = m$.

Dagegen ist die in Toth (2019a) eingeführte dyadisch-trichotomische Matrix eine 2×3 -Matrix, bei der also $n \neq m$ gilt

	.1	.2	.3
1.	1.1	1.2	1.3
2.	2.1	2.2	2.3

Während also die bensesche Zeichenrelation durch

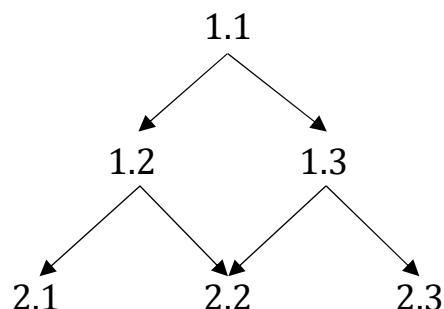
$$Z^{2,3} = (3.x, 2.y, 1.z)$$

mit $x, y, z \in (1, 2, 3)$ definiert ist, ist unsere Zeichenrelation durch

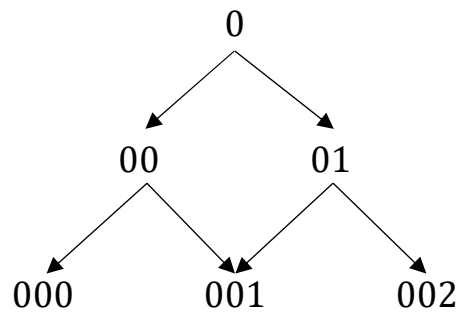
$$Z^{2,3} = ((w.x), (y.z))$$

mit $w \dots z \in (1, 2, 3)$ definiert. Hier haben also bereits auf der immer noch monokontexturalen Ebene Zeilen und Spalten verschiedene Längen.

2. Wie in Toth (2019b) gezeigt wurde, kann man die Subzeichen der 2×3 -Matrix in einer Pseudo-Proto-Darstellung wie folgt anordnen



Dagegen ist die echte Proto- und die ihr gleiche Deutero-Darstellung für die Kontexturen $K = 1$ bis $K = 3$



Dadurch sind wir erstmals in der Geschichte der polykontexturalen Semiotik, die mit Kronthaler (1992) und Toth (2003) begonnen hatte, imstande, die 6 Subzeichen von $Z^{2,3}$ einer (bijektiven) Kenose zu unterziehen, denn aus der Äquivalenz der Pseudo-Proto-Deutero-Struktur von $Z^{2,3}$ und der Proto-Deutero-Struktur von $K = 1$ bis $K = 3$ folgt

(1.1) $\leftrightarrow$ 0

(1.2) $\leftrightarrow$ 00

(1.3) $\rightarrow$ 01

(2.1) $\leftrightarrow$ 000

(2.2) $\leftrightarrow$ 001

(2.3) $\leftrightarrow$ 012.

Was die dyadische Form-Inhalts (FI)-Differenz von $Z^{2,3}$ – wie aller dyadischen Zeichenrelationen - betrifft, so können wir die obigen umkehrbar eindeutigen Zuordnungen weiter wie folgt kategorisieren

(1.1) $\leftrightarrow$ 0 $F \cup I$

(1.2) $\leftrightarrow$ 00 }

(1.3) $\rightarrow$ 01 } F

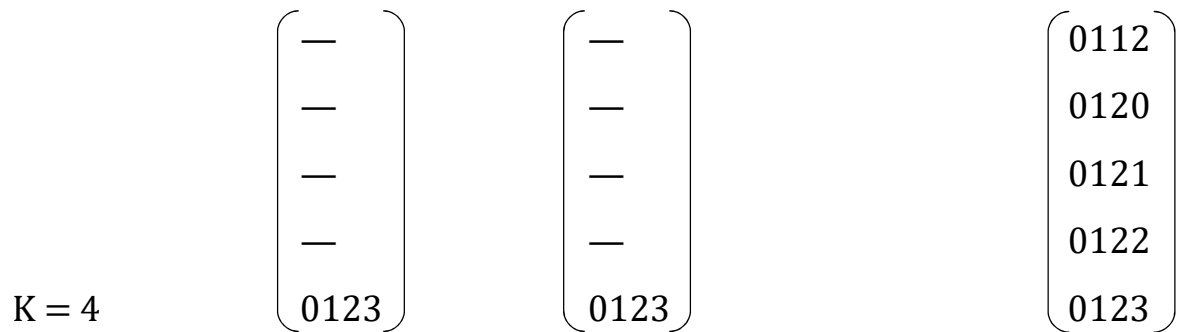
(2.1) $\leftrightarrow$ 000 }

(2.2) $\leftrightarrow$ 001 } I

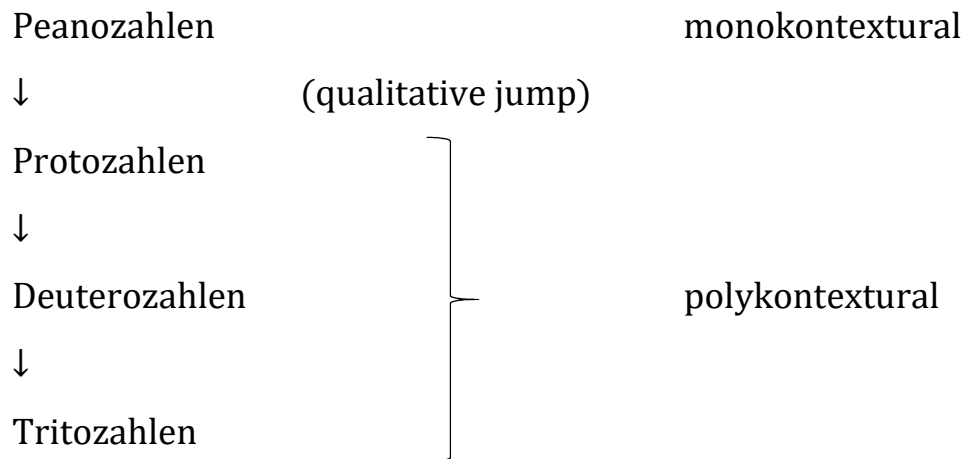
(2.3) $\leftrightarrow$ 012. }

3. Da wir in Toth (2019c) angedeutet hatten, daß man eine polykontexturale Semiotik konstruieren kann, stellen wir also fest, daß beim Übergang von der reinen Quantität der Bense-Semiotik zur Quali-Quantität der polykontexturalen Semiotik die Spalten für jede Zeile wachsen, d.h. statt -tomien haben wir in den entsprechenden Matrizen Kontexturen, d.h. Längen von Kenofolgen.

Proto-Semiotik		Deutero-Semiotik		Trito-Semiotik
K = 1	$\begin{pmatrix} 0 \end{pmatrix}$	$\begin{pmatrix} 0 \end{pmatrix}$		$\begin{pmatrix} 0 \end{pmatrix}$
K = 2	$\begin{pmatrix} 00 \\ 001 \end{pmatrix}$	$\begin{pmatrix} 00 \\ 01 \end{pmatrix}$		$\begin{pmatrix} 00 \\ 01 \end{pmatrix}$
K = 3	$\begin{pmatrix} 000 \\ 001 \\ — \\ — \\ 012 \end{pmatrix}$	$\begin{pmatrix} 000 \\ 001 \\ — \\ — \\ 012 \end{pmatrix}$		$\begin{pmatrix} 000 \\ 001 \\ 010 \\ 011 \\ 012 \end{pmatrix}$
	$\begin{pmatrix} 0000 \\ 0001 \\ — \\ 0012 \\ — \\ — \\ — \\ — \\ — \end{pmatrix}$	$\begin{pmatrix} 0000 \\ 0001 \\ — \\ 0011 \\ 0012 \\ — \\ — \\ — \\ — \end{pmatrix}$		$\begin{pmatrix} 0000 \\ 0001 \\ 0010 \\ 0011 \\ 0012 \\ 0100 \\ 0101 \\ 0102 \\ 0110 \\ 0111 \end{pmatrix}$



Die Striche deuten hier die qualitative gaps zwischen den Proto-, Deutero- und Tritozahlen an. Da bei den Protozahlen nur die verschiedenen Zahlen, bei den Deuterozahlen die verschiedenen und die gleichen sowie bei den Tritozahlen zusätzlich die Orte relevant sind, findet also eine graduelle Ausdifferenzierung zwischen den drei polykontexturalen Zahlen statt:



4. Im folgenden präsentieren wir das vollständige System der 18 Teilsysteme der polykontexturalen Semiotik auf der Basis der dyadisch-trichotomischen topologischen Zeichenrelation

$$Z^{2,3} = ((w.x), (y.z))$$

mit $w, \dots, z \in (1, 2, 3)$ (vgl. Toth 2019d)

4.1. (1.1, 2.1)-System

(0)(000)	((0))(000)	(0)((000))	((000))(0)	(000)((0))	((0))((000))
(0)(000]	((0))(000]	(0)((000)]	((000))(0]	(000)((0)]	((0))((000)]
(0)[000)	((0))[000)	(0)[(000))	((000))[0)	(000)[(0))	((0))[(000))
(0)[000]	((0))[000]	(0)[(000)]	((000))[0]	(000)[(0)]	((0))[(000)]
[0](000)	[(0)](000)	[0]((000))	[(000)](0)	[000]((0))	[(0)]((000))
[0](000]	[(0)](000]	[0]((000)]	[(000)](0]	[000]((0)]	[0]((000)]
[0][000)	[(0)][000)	[0][(000))	[(000)][0)	[000][(0))	[(0)][(000))
[0][000]	[(0)][000]	[0][(000)]	[(000)][0]	[000][(0)]	[(0)][(000)]
[0](000)	[(0))(000)	[0]((000))	[(000))(0)	[000]((0))	[(0))((000))
[0](000]	[(0))(000]	[0]((000)]	[(000))(0]	[000]((0)]	[(0))((000)]
[0][000)	[(0))[000)	[0][(000))	[(000))[0)	[000][(0))	[(0))[(000))
[0][000]	[(0))[000]	[0][(000)]	[(000))[0]	[000][(0)]	[(0))[(000)]
[0](000)	[(0)](000)	[0]((000))	[(000)](0)	[000]((0))	[(0)]((000))
[0](000]	[(0)](000]	[0]((000)]	[(000)](0]	[000]((0)]	[(0)]((000)]
[0][000)	[(0)][000)	[0][(000))	[(000)][0)	[000][(0))	[(0)][(000))
[0][000]	[(0)][000]	[0][(000)]	[(000)][0]	[000][(0)]	[(0)][(000)].

4.2. (1.1, 2.2)-System

(0)(001)	((0))(001)	(0)((001))	((001))(0)	(001)((0))	((0))((001))
(0)(001]	((0))(001]	(0)((001])	((001))(0]	(001)((0])	((0))((001])
(0)[001)	((0))[001)	(0)[(001))	((001))[0)	(001)[(0))	((0))[((001))
(0)[001]	((0))[001]	(0)[(001)]	((001))[0]	(001)[(0)]	((0))[((001)]
[0](001)	[(0)](001)	[0]((001))	[(001)](0)	[001]((0))	[(0)]((001))
[0](001]	[(0)](001]	[0]((001])	[(001)](0]	[001]((0])	[(0)]((001])
[0][001)	[(0)][001)	[0][(001))	[(001)][0)	[001][(0))	[(0)][((001))
[0][001]	[(0)][001]	[0][(001)]	[(001)][0]	[001][(0)]	[(0)][((001)]
[0)(001)	[(0))(001)	[0]((001))	[(001))(0)	[001]((0))	[(0))((001))
[0)(001]	[(0))(001]	[0]((001])	[(001))(0]	[001]((0])	[(0))((001])
[0][001)	[(0))[001)	[0]((001))	[(001))[0)	[001]((0))	[(0))((001))
[0][001]	[(0))[001]	[0]((001)]	[(001))[0]	[001]((0)]	[(0))((001)]
[0](001)	[(0)](001)	[0]((001))	[(001)](0)	[001]((0))	[(0)]((001))
[0](001]	[(0)](001]	[0]((001])	[(001)](0]	[001]((0])	[(0)]((001])
[0][001)	[(0)][001)	[0]((001))	[(001)][0)	[001]((0))	[(0)]((001))
[0][001]	[(0)][001]	[0]((001)]	[(001)][0]	[001]((0)]	[(0)]((001)]

4.3. (1.1, 2.3)-System

$(0)(012)$	$((0))(012)$	$(0)((012))$	$((012))(0)$	$(012)((0))$	$((0))((012))$
$(0)(012]$	$((0))(012]$	$(0)((012])$	$((012))(0]$	$(012)((0)]$	$((0))((012])$
$(0)[012)$	$((0))[012)$	$(0)[(012))$	$((012))[0)$	$(012)[(0))$	$((0))[(012))$
$(0)[012]$	$((0))[012]$	$(0)[(012)]$	$((012))[0]$	$(012)[(0)]$	$((0))[(012)]$
$[0)(012)$	$[(0))(012)$	$[0)((012))$	$[(012))(0)$	$[012)((0))$	$[(0))((012))$
$[0)(012]$	$[(0))(012]$	$[0)((012])$	$[(012))(0]$	$[012)((0)]$	$[(0))((012])$
$[0][012)$	$[(0)][012)$	$[0][(012))$	$[(012)][0)$	$[012][(0))$	$[(0)][(012))$
$[0][012]$	$[(0)][012]$	$[0][(012)]$	$[(012)][0]$	$[012][(0)]$	$[(0)][(012)]$
$[0](012)$	$[(0)](012)$	$[0]((012))$	$[(012)](0)$	$[012]((0))$	$[(0)]((012))$
$[0](012]$	$[(0)](012]$	$[0]((012])$	$[(012)](0]$	$[012]((0)]$	$[(0)]((012])$
$[0][012)$	$[(0)][012)$	$[0][(012))$	$[(012)][0)$	$[012][(0))$	$[(0)][(012))$
$[0][012]$	$[(0)][012]$	$[0][(012)]$	$[(012)][0]$	$[012][(0)]$	$[(0)][(012)]$
$[0](012)$	$[(0)](012)$	$[0]((012))$	$[(012)](0)$	$[012]((0))$	$[(0)]((012))$
$[0](012]$	$[(0)](012]$	$[0]((012])$	$[(012)](0]$	$[012]((0)]$	$[(0)]((012])$
$[0][012)$	$[(0)][012)$	$[0][(012))$	$[(012)][0)$	$[012][(0))$	$[(0)][(012))$
$[0][012]$	$[(0)][012]$	$[0][(012)]$	$[(012)][0]$	$[012][(0)]$	$[(0)][(012)]$

4.4. (1.2, 2.1)-System

(00)(000)	((00))(000)	(00)((000))	((000))(00)	(000)((00))	((00))((000))
(00)(000]	((00))(000]	(00)((000)]	((000))(00]	(000)((00)]	((00))((000)]
(00)[000)	((00))[000)	(00)[(000))	((000))[00)	(000)[(00))	((00))[((000))
(00)[000]	((00))[000]	(00)[(000)]	((000))[00]	(000)[(00)]	((00))[((000)]

(00](000)	((00)](000)	(00]((000))	((000)](00)	(000]((00))	((00)]((000))
(00](000]	((00)](000]	(00]((000)]	((000)](00]	(000]((00)]	(00]((000)]
(00][000)	((00)][000)	(00][((000))	((000)][00)	(000][((00))	((00)][((000))
(00][000]	((00)][000]	(00][((000)]	((000)][00]	(000][((00)]	((00)][((000)]

[00)(000)	[(00))(000)	[00)((000))	[(000))(00)	[000)((00))	[(00))((000))
[00)(000]	[(00))(000]	[00)((000)]	[(000))(00]	[000)((00)]	[(00))((000)]
[00][000)	[(00))[000)	[00)[(000))	[(000))[00)	[000)[(00))	[(00))[((000))
[00][000]	[(00))[000]	[00)[(000)]	[(000))[00]	[000)[(00)]	[(00))[((000)]

[00](000)	[(00)](000)	[00]((000))	[(000)](00)	[000]((00))	[(00)]((000))
[00](000]	[(00)](000]	[00]((000)]	[(000)](00]	[000]((00)]	[(00)]((000)]
[00][000)	[(00)][000)	[00][((000))	[(000)][00)	[000][((00))	[(00)][((000))
[00][000]	[(00)][000]	[00][((000)]	[(000)][00]	[000][((00)]	[(00)][((000)].

4.5. (1.2, 2.2)-System

(00)(001)	((00))(001)	(00)((001))	((001))(00)	(001)((00))	((00))((001))
(00)(001]	((00))(001]	(00)((001])	((001))(00]	(001)((00])	((00))((001])
(00)[001)	((00))[001)	(00)[(001))	((001))[00)	(001)[(00))	((00))[((001))
(00)[001]	((00))[001]	(00)[(001)]	((001))[00]	(001)[(00)]	((00))[((001)]

(00](001)	((00)](001)	(00]((001))	((001)](00)	(001]((00))	((00)]((001))
(00](001]	((00)](001]	(00]((001])	((001)](00]	(001]((00])	((00)]((001])
(00][001)	((00)][001)	(00][((001))	((001)][00)	(001][((00))	((00)][((001))
(00][001]	((00)][001]	(00][((001)]	((001)][00]	(001][((00)]	((00)][((001)]

[00)(001)	[(00))(001)	[00)((001))	[(001))(00)	[001)((00))	[(00))((001))
[00)(001]	[(00))(001]	[00)((001])	[(001))(00]	[001)((00])	[(00))((001])
[00][001)	[(00))[001)	[00)[(001))	[(001))[00)	[001)[(00))	[(00)][((001))
[00][001]	[(00))[001]	[00)[(001)]	[(001))[00]	[001)[(00)]	[(00)][((001)]

[00](001)	[(00)](001)	[00]((001))	[(001)](00)	[001]((00))	[(00)]((001))
[00](001]	[(00)](001]	[00]((001])	[(001)](00]	[001]((00])	[(00)]((001])
[00][001)	[(00)][001)	[00][((001))	[(001)][00)	[001][((00))	[(00)][((001))
[00][001]	[(00)][001]	[00][((001)]	[(001)][00]	[001][((00)]	[(00)][((001)].

4.6. (1.2, 2.3)-System

(00)(012)	((00))(012)	(00)((012))	((012))(00)	(012)((00))	((00))((012))
(00)(012]	((00))(012]	(00)((012])	((012))(00]	(012)((00])	((00))((012])
(00)[012)	((00))[012)	(00)[(012))	((012))[00)	(012)[(00))	((00))[(012))
(00)[012]	((00))[012]	(00)[(012)]	((012))[00]	(012)[(00)]	((00))[(012)]

(00](012)	((00)](012)	(00]((012))	((012)](00)	(012]((00))	((00)]((012))
(00](012]	((00)](012]	(00]((012])	((012)](00]	(012]((00])	((00)]((012])
(00][012)	((00)][012)	(00][(012))	((012)][00)	(012)][(00))	((00)][(012))
(00][012]	((00)][012]	(00][(012)]	((012)][00]	(012)][(00)]	((00)][(012)]

[00)(012)	[(00))(012)	[00)((012))	[(012))(00)	[012)((00))	[(00))((012))
[00)(012]	[(00))(012]	[00)((012])	[(012))(00]	[012)((00])	[(00))((012])
[00][012)	[(00))[012)	[00)[(012))	[(012))[00)	[012)[(00))	[(00))[(012))
[00][012]	[(00))[012]	[00)[(012)]	[(012))[00]	[012)[(00)]	[(00))[(012)]

[00](012)	[(00)](012)	[00]((012))	[(012)](00)	[012]((00))	[(00)]((012))
[00](012]	[(00)](012]	[00]((012])	[(012)](00]	[012]((00])	[(00)]((012])
[00][012)	[(00)][012)	[00][(012))	[(012)][00)	[012)][(00))	[(00)][(012))
[00][012]	[(00)][012]	[00][(012)]	[(012)][00]	[012)][(00)]	[(00)][(012)].

4.7. (1.3, 2.1)-System

(01)(000)	((01))(000)	(01)((000))	((000))(01)	(000)((01))	((01))((000))
(01)(000]	((01))(000]	(01)((000])	((000))(01]	(000)((01])	((01))((000])
(01)[000)	((01))[000)	(01)[(000))	((000))[01)	(000)[(01))	((01))[((000))
(01)[000]	((01))[000]	(01)[(000)]	((000))[01]	(000)[(01)]	((01))[((000)]

(01](000)	((01)](000)	(01]((000))	((000)](01)	(000]((01))	((01)]((000))
(01](000]	((01)](000]	(01]((000])	((000)](01]	(000]((01])	(01]((000])
(01][000)	((01)][000)	(01][((000))	((000)][01)	(000)][(01))	((01)][((000))
(01][000]	((01)][000]	(01][((000)]	((000)][01]	(000)][(01)]	((01)][((000)]

[01)(000)	[(01))(000)	[01)((000))	[(000))(01)	[000)((01))	[(01))((000))
[01)(000]	[(01))(000]	[01)((000])	[(000))(01]	[000)((01])	[(01))((000])
[01][000)	[(01))[000)	[01)[(000))	[(000))[01)	[000)[(01))	[(01)][((000))
[01][000]	[(01))[000]	[01)[(000)]	[(000))[01]	[000)[(01)]	[(01)][((000)]

[01](000)	[(01)](000)	[01]((000))	[(000)](01)	[000]((01))	[(01)]((000))
[01](000]	[(01)](000]	[01]((000])	[(000)](01]	[000]((01])	[(01)]((000])
[01][000)	[(01)][000)	[01][((000))	[(000)][01)	[000][((01))	[(01)][((000))
[01][000]	[(01)][000]	[01][((000)]	[(000)][01]	[000][((01)]	[(01)][((000)].

4.8. (1.3, 2.2)-System

(01)(001)	((01))(001)	(01)((001))	((001))(01)	(001)((01))	((01))((001))
(01)(001]	((01))(001]	(01)((001])	((001))(01]	(001)((01])	((01))((001])
(01)[001)	((01))[001)	(01)[(001))	((001))[01)	(001)[(01))	((01))[((001))
(01)[001]	((01))[001]	(01)[(001)]	((001))[01]	(001)[(01)]	((01))[((001)]

(01](001)	((01)](001)	(01]((001))	((001)](01)	(001]((01))	((01)]((001))
(01](001]	((01)](001]	(01]((001])	((001)](01]	(001]((01])	(01]((001])
(01][001)	((01)][001)	(01][((001))	((001)][01)	(001][((01))	((01)][((001))
(01][001]	((01)][001]	(01][((001)]	((001)][01]	(001][((01)]	((01)][((001)]

[01)(001)	[(01))(001)	[01)((001))	[(001))(01)	[001)((01))	[(01))((001))
[01)(001]	[(01))(001]	[01)((001])	[(001))(01]	[001)((01])	[(01))((001])
[01][001)	[(01))[001)	[01)[(001))	[(001))[01)	[001)[(01))	[(01))[((001))
[01][001]	[(01))[001]	[01)[(001)]	[(001))[01]	[001)[(01)]	[(01))[((001)]

[01](001)	[(01)](001)	[01]((001))	[(001)](01)	[001]((01))	[(01)]((001))
[01](001]	[(01)](001]	[01]((001])	[(001)](01]	[001]((01])	[(01)]((001])
[01][001)	[(01)][001)	[01][((001))	[(001)][01)	[001][((01))	[(01)][((001))
[01][001]	[(01)][001]	[01][((001)]	[(001)][01]	[001][((01)]	[(01)][((001)].

4.9. (1.3, 2.3)-System

(01)(012)	((01))(012)	(01)((012))	((012))(01)	(012)((01))	((01))((012))
(01)(012]	((01))(012]	(01)((012])	((012))(01]	(012)((01])	((01))((012])
(01)[012)	((01))[012)	(01)[(012))	((012))[01)	(012)[(01))	((01))[(012))
(01)[012]	((01))[012]	(01)[(012)]	((012))[01]	(012)[(01)]	((01))[(012)]

(01](012)	((01)](012)	(01]((012))	((012)](01)	(012]((01))	((01)]((012))
(01](012]	((01)](012]	(01]((012])	((012)](01]	(012]((01])	((01)]((012])
(01][012)	((01)][012)	(01][(012))	((012)][01)	(012][(01))	((01)][(012))
(01][012]	((01)][012]	(01][(012)]	((012)][01]	(012][(01)]	((01)][(012)]

[01)(012)	[(01))(012)	[01)((012))	[(012))(01)	[012)((01))	[(01))((012))
[01)(012]	[(01))(012]	[01)((012])	[(012))(01]	[012)((01])	[(01))((012])
[01][012)	[(01))[012)	[01][(012))	[(012))[01)	[012][(01))	[(01))[(012))
[01][012]	[(01))[012]	[01][(012)]	[(012))[01]	[012][(01)]	[(01))[(012)]

[01](012)	[(01)](012)	[01]((012))	[(012)](01)	[012]((01))	[(01)]((012))
[01](012]	[(01)](012]	[01]((012])	[(012)](01]	[012]((01])	[(01)]((012])
[01][012)	[(01)][012)	[01][(012))	[(012)][01)	[012][(01))	[(01)][(012))
[01][012]	[(01)][012]	[01][(012)]	[(012)][01]	[012][(01)]	[(01)][(012)].

4.10. (2.1, 1.1)-System

(000)(0)	((000))(0)	(000)((0))	((0))(000)	(0)((000))	((000))((0))
(000)(0]	((000))(0]	(000)((0)]	((0))(000]	(0)((000)]	((000))((0)]
(000)[0)	((000))[0)	(000)[(0))	((0))[000)	(0)[(000))	((000))[((0))
(000)[0]	((000))[0]	(000)[(0)]	((0))[000]	(0)[(000)]	((000))[((0)]

(000](0)	((000)](0)	(000)((0))	((0)](000)	(0)((000))	((000)]((0))
(000](0]	((000)](0]	(000)((0)]	((0)](000]	(0)((000)]	(000)]((0)]
(000][0)	((000)][0)	(000)][(0))	((0)][000)	(0)][(000))	((000)][((0))
(000][0]	((000)][0]	(000)][(0)]	((0)][000]	(0)][(000)]	((000)][((0)]

[000)(0)	[(000))(0)	[000)((0))	[(0))(000)	[0)((000))	[(000))((0))
[000)(0]	[(000))(0]	[000)((0)]	[(0))(000]	[0)((000)]	[(000))((0)]
[000)[0)	[(000))[0)	[000)[(0))	[(0))[000)	[0)[(000))	[(000))[((0))
[000)[0]	[(000))[0]	[000)[(0)]	[(0))[000]	[0)[(000)]	[(000))[((0)]

[000](0)	[(000)](0)	[000)((0))	[(0)](000)	[0)((000))	[(000)]((0))
[000](0]	[(000)](0]	[000)((0)]	[(0)](000]	[0)((000)]	[(000)]((0)]
[000][0)	[(000)][0)	[000)][(0))	[(0)][000)	[0)][(000))	[(000)][((0))
[000][0]	[(000)][0]	[000)][(0)]	[(0)][000]	[0)][(000)]	[(000)][((0)]

4.11. (2.1, 1.2)-System

(000)(00)	((000))(00)	(000)((00))	((00))(000)	(00)((000))	((000))((00))
(000)(00]	((000))(00]	(000)((00)]	((00))(000]	(00)((000)]	((000))((00)]
(000)[00)	((000))[00)	(000)[(00))	((00))[000)	(00)[(000))	((000))[000))
(000)[00]	((000))[00]	(000)[(00)]	((00))[000]	(00)[(000)]	((000))[000]

(000](00)	((000)](00)	(000])((00))	((00)](000)	(00])((000))	((000])((00))
(000](00]	((000)](00]	(000])((00)]	((00)](000]	(00])((000)]	((000])((00)]
(000][00)	((000)][00)	(000)][(00))	((00)][000)	(00)][(000))	((000)][000))
(000][00]	((000)][00]	(000)][(00)]	((00)][000]	(00)][(000)]	((000)][000]

[000)(00)	[(000))(00)	[000)((00))	[(00))(000)	[00)((000))	[(000))((00))
[000)(00]	[(000))(00]	[000)((00)]	[(00))(000]	[00)((000)]	[(000))((00)]
[000)[00)	[(000))[00)	[000)[(00))	[(00))[000)	[00)[(000))	[(000))[000))
[000)[00]	[(000))[00]	[000)[(00)]	[(00))[000]	[00)[(000)]	[(000))[000]

[000](00)	[(000)](00)	[000])((00))	[(00)](000)	[00])((000))	[(000])((00))
[000](00]	[(000)](00]	[000])((00)]	[(00)](000]	[00])((000)]	[(000])((00)]
[000][00)	[(000)][00)	[000)][(00))	[(00)][000)	[00)][(000))	[(000)][000))
[000][00]	[(000)][00]	[000)][(00)]	[(00)][000]	[00)][(000)]	[(000)][000]

4.12. (2.1, 1.3)-System

(000)(01)	((000))(01)	(000)((01))	((01))(000)	(01)((000))	((000))((01))
(000)(01]	((000))(01]	(000)((01])	((01))(000]	(01)((000])	((000))((01])
(000)[01)	((000))[01)	(000)[(01))	((01))[000)	(01)[(000))	((000))[((01))
(000)[01]	((000))[01]	(000)[(01)]	((01))[000]	(01)[(000)]	((000))[((01)]

(000]01)	((000)]01)	(000])((01))	((01)](000)	(01])((000))	((000)]((01))
(000]01]	((000)]01]	(000])((01])	((01)](000]	(01])((000])	((000)]((01])
(000][01)	((000)][01)	(000)][(01))	((01)][000)	(01)][(000))	((000)][((01))
(000][01]	((000)][01]	(000)][(01)]	((01)][000]	(01)][(000)]	((000)][((01)]

[000)(01)	[(000))(01)	[000)((01))	[(01))(000)	[01)((000))	[(000))((01))
[000)(01]	[(000))(01]	[000)((01])	[(01))(000]	[01)((000])	[(000))((01])
[000)[01)	[(000))[01)	[000)[(01))	[(01))[000)	[01)[(000))	[(000))[((01))
[000)[01]	[(000))[01]	[000)[(01)]	[(01))[000]	[01)[(000)]	[(000))[((01)]

[000]01)	[(000)]01)	[000])((01))	[(01)](000)	[01])((000))	[(000)]((01))
[000]01]	[(000)]01]	[000])((01])	[(01)](000]	[01])((000])	[(000)]((01])
[000][01)	[(000)][01)	[000)][(01))	[(01)][000)	[01)][(000))	[(000)][((01))
[000][01]	[(000)][01]	[000)][(01)]	[(01)][000]	[01)][(000)]	[(000)][((01)]

4.13. (2.2, 1.1)-System

(001)(0)	((001))(0)	(001)((0))	((0))(001)	(0)((001))	((001))((0))
(001)(0]	((001))(0]	(001)((0)]	((0))(001]	(0)((001)]	((001))((0)]
(001)[0)	((001))[0)	(001)[(0))	((0))[001)	(0)[(001))	((001))[((0))
(001)[0]	((001))[0]	(001)[(0)]	((0))[001]	(0)[(001)]	((001))[((0)]

(001](0)	((001)](0)	(001]((0))	((0)](001)	(0]((001))	((001)]((0))
(001](0]	((001)](0]	(001]((0)]	((0)](001]	(0]((001)]	(001]((0)]
(001])[0)	((001])[0)	(001])[((0))	((0)]][001)	(0)][(001))	((001)]][((0))
(001])[0]	((001)]][0]	(001])[((0)]	((0)]][001]	(0)][(001)]	((001)]][((0)]

[001)(0)	[(001))(0)	[001)((0))	[(0))(001)	[0)((001))	[(001))((0))
[001)(0]	[(001))(0]	[001)((0)]	[(0))(001]	[0)((001)]	[(001))((0)]
[001)[0)	[(001))[0)	[001)[(0))	[(0))[001)	[0)[(001))	[(001))[((0))
[001)[0]	[(001))[0]	[001)[(0)]	[(0))[001]	[0)[(001)]	[(001))[((0)]

[001](0)	[(001)](0)	[001]((0))	[(0)](001)	[0]((001))	[(001)]((0))
[001](0]	[(001)](0]	[001]((0)]	[(0)](001]	[0]((001)]	[(001)]((0)]
[001])[0)	[(001)]][0)	[001])[((0))	[(0)]][001)	[0)][(001))	[(001)]][((0))
[001])[0]	[(001)]][0]	[001])[((0)]	[(0)]][001]	[0)][(001)]	[(001)]][((0)]

4.14. (2.2, 1.2)-System

(001)(00)	((001))(00)	(001)((00))	((00))(001)	(00)((001))	((001))((00))
(001)(00]	((001))(00]	(001)((00)]	((00))(001]	(00)((001)]	((001))((00)]
(001)[00)	((001))[00)	(001)[(00))	((00))[001)	(00)[(001))	((001))[00))
(001)[00]	((001))[00]	(001)[(00)]	((00))[001]	(00)[(001)]	((001))[00)]

(001](00)	((001)](00)	(001]((00))	((00)](001)	(00]((001))	((001)]((00))
(001](00]	((001)](00]	(001]((00)]	((00)](001]	(00]((001)]	((001)]((00)]
(001])[00)	((001])[00)	(001])[00))	((00])[001)	(00])[001))	((001])[00))
(001])[00]	((001])[00]	(001])[00)]	((00])[001]	(00])[001)]	((001])[00)]

[001)(00)	[(001))(00)	[001)((00))	[(00))(001)	[00)((001))	[(001))((00))
[001)(00]	[(001))(00]	[001)((00)]	[(00))(001]	[00)((001)]	[(001))((00)]
[001)[00)	[(001))[00)	[001)[(00))	[(00))[001)	[00)[(001))	[(001))[00))
[001)[00]	[(001))[00]	[001)[(00)]	[(00))[001]	[00)[(001)]	[(001))[00)]

[001](00)	[(001)](00)	[001]((00))	[(00)](001)	[00]((001))	[(001)]((00))
[001](00]	[(001)](00]	[001]((00)]	[(00)](001]	[00]((001)]	[(001)]((00)]
[001])[00)	[(001)](00)	[001])[00))	[(00)](001)	[00])[001))	[(001)](00))
[001])[00]	[(001)](00]	[001])[00)]	[(00)](001]	[00])[001)]	[(001)](00)]

4.15. (2.2, 1.3)-System

(001)(01)	((001))(01)	(001)((01))	((01))(001)	(01)((001))	((001))((01))
(001)(01]	((001))(01]	(001)((01])	((01))(001]	(01)((001])	((001))((01])
(001)[01)	((001))[01)	(001)[(01))	((01))[001)	(01)[(001))	((001))[((01))
(001)[01]	((001))[01]	(001)[(01)]	((01))[001]	(01)[(001)]	((001))[((01)]

(001](01)	((001)](01)	(001])((01))	((01)](001)	(01])((001))	((001)]((01))
(001](01]	((001)](01]	(001])((01])	((01)](001]	(01])((001])	((001)]((01])
(001)](01)	((001)](01)	(001)]((01))	((01)](001)	(01)]((001))	((001)]((01))
(001)](01]	((001)](01]	(001)]((01])	((01)](001]	(01)]((001])	((001)]((01])

[001)(01)	[(001))(01)	[001)((01))	[(01))(001)	[01)((001))	[(001))((01))
[001)(01]	[(001))(01]	[001)((01])	[(01))(001]	[01)((001])	[(001))((01])
[001)[01)	[(001))[01)	[001)[(01))	[(01))[001)	[01)[(001))	[(001))[((01))
[001)[01]	[(001))[01]	[001)[(01)]	[(01))[001]	[01)[(001)]	[(001))[((01)]

[001](01)	[(001)](01)	[001])((01))	[(01)](001)	[01])((001))	[(001)]((01))
[001](01]	[(001)](01]	[001])((01])	[(01)](001]	[01])((001])	[(001)]((01])
[001)](01)	[(001)](01)	[001)]((01))	[(01)](001)	[01)]((001))	[(001)]((01))
[001)](01]	[(001)](01]	[001)]((01])	[(01)](001]	[01)]((001])	[(001)]((01])

4.16. (2.3, 1.1)-System

$(012)(0)$	$((012))(0)$	$(012)((0))$	$((0))(012)$	$(0)((012))$	$((012))((0))$
$(012)(0]$	$((012))(0]$	$(012)((0)]$	$((0))(012]$	$(0)((012)]$	$((012))((0)]$
$(012)[0)$	$((012))[0)$	$(012)[(0))$	$((0))[012)$	$(0)[(012))$	$((012))[(0))$
$(012)[0]$	$((012))[0]$	$(012)[(0)]$	$((0))[012]$	$(0)[(012)]$	$((012))[(0)]$

$(012](0)$	$((012)](0)$	$(012]((0))$	$((0)](012)$	$(0]((012))$	$((012)]((0))$
$(012](0]$	$((012)](0]$	$(012]((0)]$	$((0)](012]$	$(0]((012)]$	$((012)]((0)]$
$(012])[0)$	$((012])[0)$	$(012])[(0))$	$((0)] [012)$	$(0] [(012))$	$((012])[(0))$
$(012])[0]$	$((012])[0]$	$(012])[(0)]$	$((0)] [012]$	$(0] [(012)]$	$((012])[(0)]$

$[012)(0)$	$[(012))(0)$	$[012)((0))$	$[(0))(012)$	$[0]((012))$	$[(012))((0))$
$[012)(0]$	$[(012))(0]$	$[012)((0)]$	$[(0))(012]$	$[0]((012)]$	$[(012))((0)]$
$[012)[0)$	$[(012))[0)$	$[012)[(0))$	$[(0))[012)$	$[0] [(012))$	$[(012))[(0))$
$[012)[0]$	$[(012))[0]$	$[012)[(0)]$	$[(0))[012]$	$[0] [(012)]$	$[(012))[(0)]$

$[012](0)$	$[(012)](0)$	$[012]((0))$	$[(0)](012)$	$[0]((012))$	$[(012)]((0))$
$[012](0]$	$[(012)](0]$	$[012]((0)]$	$[(0)](012]$	$[0]((012)]$	$[(012)]((0)]$
$[012])[0)$	$[(012])[0)$	$[012])[(0))$	$[(0)] [012)$	$[0] [(012))$	$[(012])[(0))$
$[012])[0]$	$[(012])[0]$	$[012])[(0)]$	$[(0)] [012]$	$[0] [(012)]$	$[(012])[(0)]$

4.17. (2.3, 1.2)-System

(012)(00)	((012))(00)	(012)((00))	((00))(012)	(00)((012))	((012))((00))
(012)(00]	((012))(00]	(012)((00)]	((00))(012]	(00)((012)]	((012))((00)]
(012)[00)	((012))[00)	(012)[(00))	((00))[012)	(00)[(012))	((012))[(00))
(012)[00]	((012))[00]	(012)[(00)]	((00))[012]	(00)[(012)]	((012))[(00)]

(012](00)	((012)](00)	(012])((00))	((00)](012)	(00])((012))	((012])((00))
(012](00]	((012)](00]	(012])((00)]	((00)](012]	(00])((012)]	((012])((00)]
(012])[00)	((012])[00)	(012])[(00))	((00])[012)	(00])[(012))	((012])[(00))
(012])[00]	((012])[00]	(012])[(00)]	((00])[012]	(00])[(012)]	((012])[(00)]

[012)(00)	[(012))(00)	[012)((00))	[(00))(012)	[00)((012))	[(012))((00))
[012)(00]	[(012))(00]	[012)((00)]	[(00))(012]	[00)((012)]	[(012))((00)]
[012)[00)	[(012))[00)	[012)[(00))	[(00))[012)	[00)[(012))	[(012))[(00))
[012)[00]	[(012))[00]	[012)[(00)]	[(00))[012]	[00)[(012)]	[(012))[(00)]

[012](00)	[(012)](00)	[012])((00))	[(00)](012)	[00])((012))	[(012])((00))
[012](00]	[(012)](00]	[012])((00)]	[(00)](012]	[00])((012)]	[(012])((00)]
[012])[00)	[(012])[00)	[012])[(00))	[(00])[012)	[00])[(012))	[(012])[(00))
[012])[00]	[(012])[00]	[012])[(00)]	[(00])[012]	[00])[(012)]	[(012])[(00)]

4.18. (2.3, 1.3)-System

(012)(01)	((012))(01)	(012)((01))	((01))(012)	(01)((012))	((012))((01))
(012)(01]	((012))(01]	(012)((01])	((01))(012]	(01)((012])	((012))((01])
(012)[01)	((012))[01)	(012)[(01))	((01))[012)	(01)[(012))	((012))[01))
(012)[01]	((012))[01]	(012)[(01)]	((01))[012]	(01)[(012)]	((012))[01)]

(012](01)	((012)](01)	(012)]((01))	((01)](012)	(01)]((012))	((012)]((01))
(012](01]	((012)](01]	(012)]((01])	((01)](012]	(01)]((012])	((012)]((01])
(012])[01)	((012])[01)	(012])[01))	((01])[012)	(01])[012))	((012])[01))
(012])[01]	((012])[01]	(012])[01)]	((01])[012]	(01])[012)]	((012])[01)]

[012)(01)	[(012))(01)	[012)((01))	[(01))(012)	[01)((012))	[(012))((01))
[012)(01]	[(012))(01]	[012)((01])	[(01))(012]	[01)((012])	[(012))((01])
[012)[01)	[(012))[01)	[012)[(01))	[(01))[012)	[01)[(012))	[(012))[01))
[012)[01]	[(012))[01]	[012)[(01)]	[(01))[012]	[01)[(012)]	[(012))[01)]

[012](01)	[(012)](01)	[012)]((01))	[(01)](012)	[01)]((012))	[(012)]((01))
[012](01]	[(012)](01]	[012)]((01])	[(01)](012]	[01)]((012])	[(012)]((01])
[012])[01)	[(012)](01)	[012])[01))	[(01)](012)	[01])[012))	[(012)](01))
[012])[01]	[(012)](01]	[012])[01)]	[(01)](012]	[01])[012)]	[(012)](01)]

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