

Prof. Dr. Alfred Toth

Punktuelle ontotopologische Invarianten

1. In Toth (2015a) hatten wir punktuelle statt linearer raumsemiotischer Relationen besprochen. Wie die paarweise ontische Differenz zwischen den folgenden drei Küchen zeigt, können offene, halboffene und abgeschlossene Teilsysteme statt linear punktuell markiert werden.



Beckhammer 1, 8057 Zürich



Brunastr. 21, 8002 Zürich



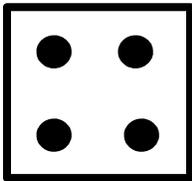
Luegislandstr.2 65, 8051 Zürich

2. Punktuelle ontotopologische Invarianten

Vgl. zur Einführung Toth (2015b).

2.1. Semiotische Repräsentation randkonstanter ontischer Strukturen

2.1.1.

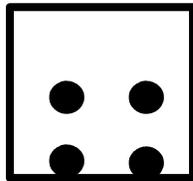


$\langle 3.3.3 \rangle_{S[S]}$

$(3.3, 2.3, x.y)$

$(y.x, 3.2, 3.3)$

2.1.2.

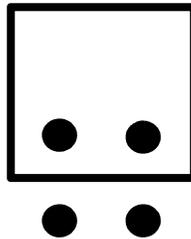


$\langle 3.2.3 \rangle_{S[S]}$

$(3.3, 2.2, x.y)$

$(y.x, 2.2, 3.3)$

2.1.3.

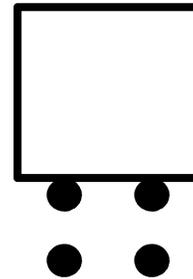


$\langle 3.2.3 \rangle_{R[S,U]}$

$(3.3, 2.1, x.y)$

$(y.x, 1.2, 3.3)$

2.1.4.

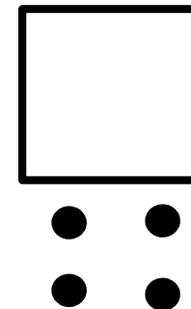


$\langle 3.2.3 \rangle_{U[U]}$

$(y.x, 2.2, 3.3)$

$(3.3, 2.2, x.y)$

2.1.5.

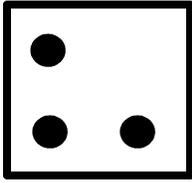


$\langle 3.3.3 \rangle_{U[U]}$

$(y.x, 3.2, 3.3)$

$(3.3, 2.3, x.y)$

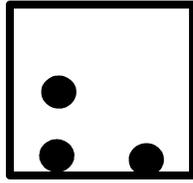
2.1.6.



$\langle 3.3.2 \rangle_{S[S]}$

(3.3, 2.3, x.y)
(y.x, 3.2, 3.3)

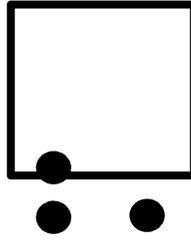
2.1.7.



$\langle 3.2.2 \rangle_{S[S]}$

(3.3, 2.2, x.y)
(y.x, 2.2, 3.3)

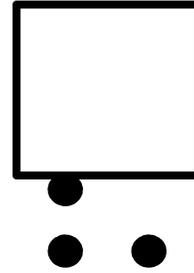
2.1.8.



$\langle 3.2.2 \rangle_{R[S,U]}$

(3.3, 2.1, x.y)
(y.x, 1.2, 3.3)

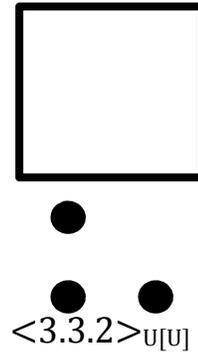
2.1.9.



$\langle 3.2.2 \rangle_{U[S]}$

(y.x, 2.2, 3.3)
(3.3, 2.2, x.y)

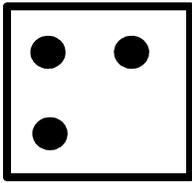
2.1.10.



$\langle 3.3.2 \rangle_{U[U]}$

(y.x, 3.2, 3.3)
(3.3, 2.3, x.y)

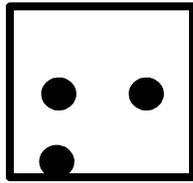
2.1.11.



$\langle 3.3.2 \rangle_{S[U]}$

(3.3, 2.3, x.y)
(y.x, 3.2, 3.3)

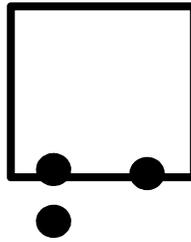
2.1.12.



$\langle 3.2.2 \rangle_{S[U]}$

(3.3, 2.2, x.y)
(y.x, 2.2, 3.3)

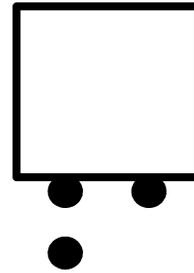
2.1.13.



$\langle 3.2.2 \rangle_{R[U,S]}$

(3.3, 2.1, x.y)
(y.x, 1.2, 3.3)

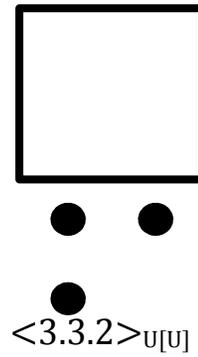
2.1.14.



$\langle 3.2.2 \rangle_{U[U]}$

(y.x, 2.2, 3.3)
(3.3, 2.2, x.y)

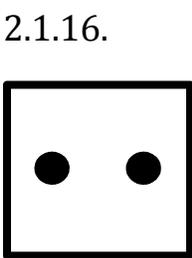
2.1.15.



$\langle 3.3.2 \rangle_{U[U]}$

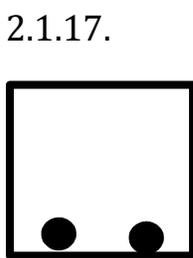
(y.x, 3.2, 3.3)
(3.3, 2.3, x.y)

2.1.1.



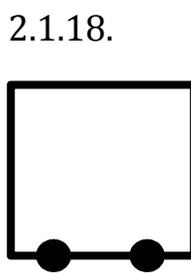
$\langle 3.3.1 \rangle_{S[S]}$

2.1.2.



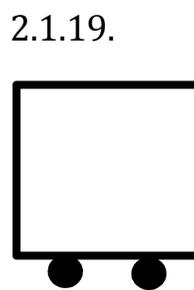
$\langle 3.2.1 \rangle_{S[S]}$

2.1.3.



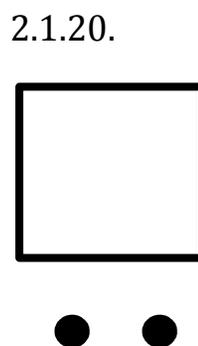
$\langle 3.2.1 \rangle_{R[S,U]}$

2.1.4.



$\langle 3.2.1 \rangle_{U[U]}$

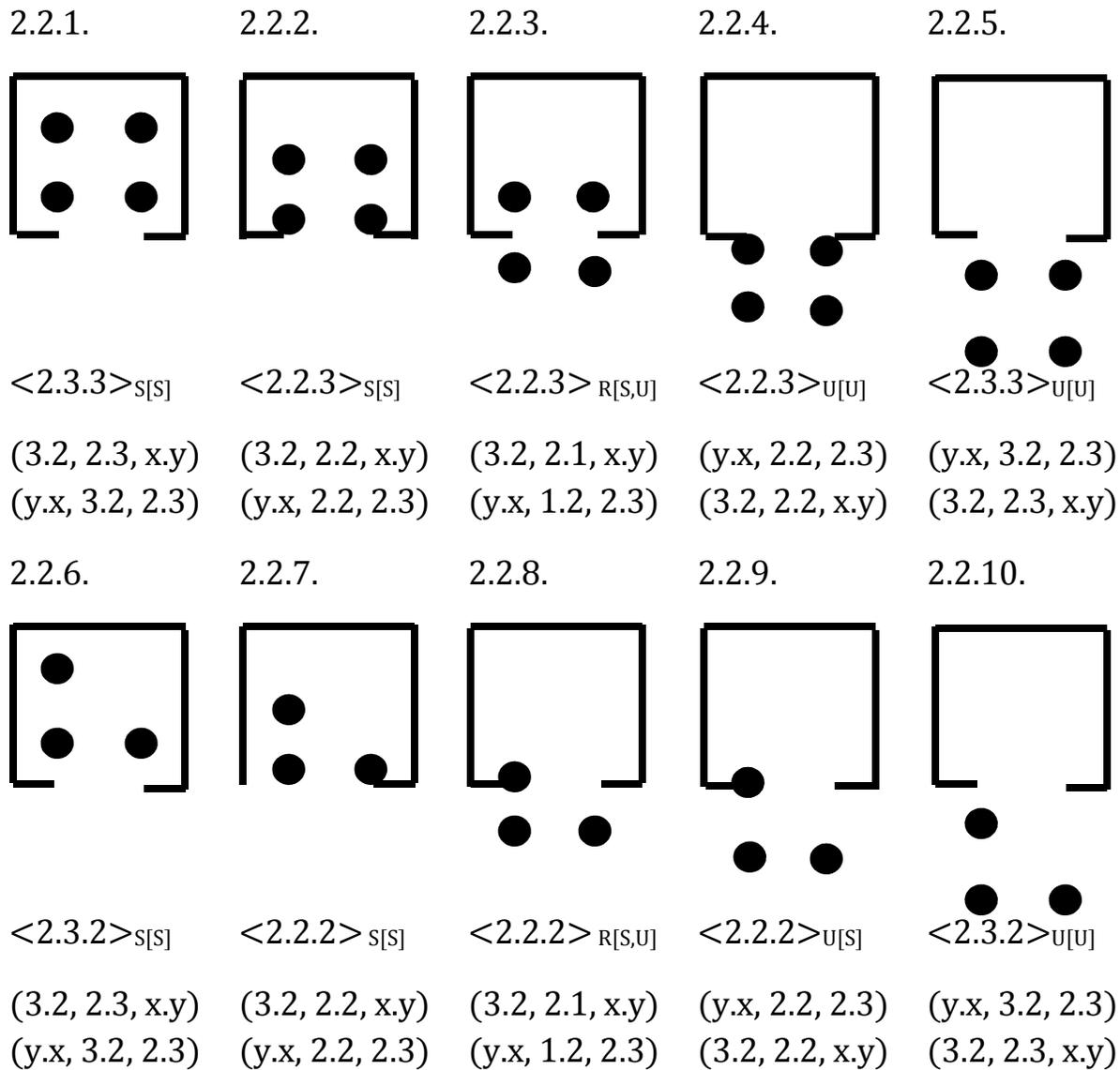
2.1.5.



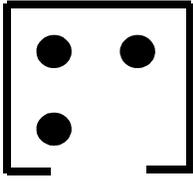
$\langle 3.3.1 \rangle_{U[U]}$

(3.3, 2.3, x.y) (3.3, 2.2, x.y) (3.3, 2.1, x.y) (y.x, 2.2, 3.3) (y.x, 3.2, 3.3)
 (y.x, 3.2, 3.3) (y.x, 2.2, 3.3) (y.x, 1.2, 3.3) (3.3, 2.2, x.y) (3.3, 2.3, x.y)

2.2. Semiotische Repräsentation partiell-randkonstanter ontischer Strukturen



2.2.11.

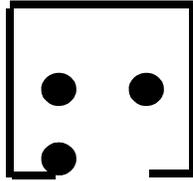


$\langle 2.3.2 \rangle_{S[U]}$

(3.2, 2.3, x.y)

(y.x, 3.2, 2.3)

2.2.12.

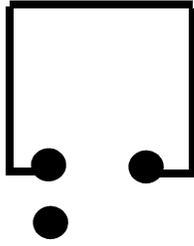


$\langle 2.2.2 \rangle_{S[U]}$

(3.2, 2.2, x.y)

(y.x, 2.2, 2.3)

2.2.13.

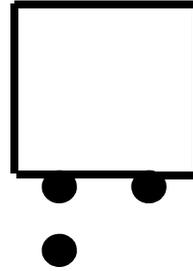


$\langle 2.2.2 \rangle_{R[U,S]}$

(3.2, 2.1, x.y)

(y.x, 1.2, 2.3)

2.2.14.

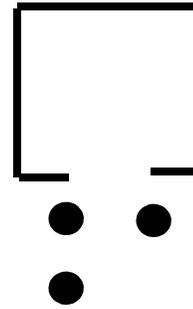


$\langle 2.2.2 \rangle_{U[U]}$

(y.x, 2.2, 2.3)

(3.2, 2.2, x.y)

2.2.15.

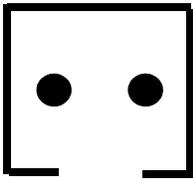


$\langle 2.3.2 \rangle_{U[U]}$

(y.x, 3.2, 2.3)

(3.2, 2.3, x.y)

2.2.16.

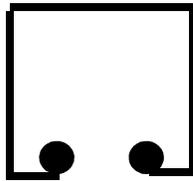


$\langle 2.3.1 \rangle_{S[S]}$

(3.2, 2.3, x.y)

(y.x, 3.2, 2.3)

2.2.17.

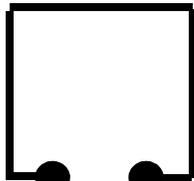


$\langle 2.2.1 \rangle_{S[S]}$

(3.2, 2.2, x.y)

(y.x, 2.2, 2.3)

2.2.18.

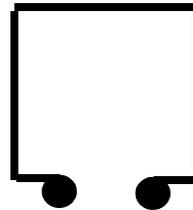


$\langle 2.2.1 \rangle_{R[S,U]}$

(3.2, 2.1, x.y)

(y.x, 1.2, 2.3)

2.2.19.

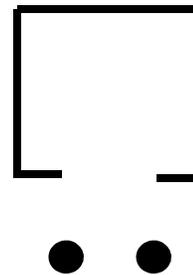


$\langle 2.2.1 \rangle_{U[U]}$

(y.x, 2.2, 2.3)

(3.2, 2.2, x.y)

2.2.20.



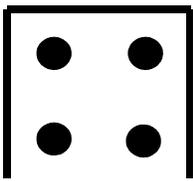
$\langle 2.3.1 \rangle_{U[U]}$

(y.x, 3.2, 2.3)

(3.2, 2.3, x.y)

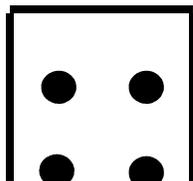
2.3. Semiotische Repräsentation nicht-randkonstanter ontischer Strukturen

2.3.1.



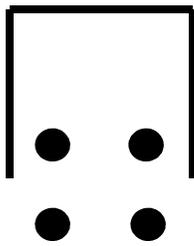
$\langle 1.3.3 \rangle_{S[S]}$

2.3.2.



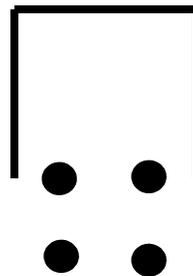
$\langle 1.2.3 \rangle_{S[S]}$

2.3.3.



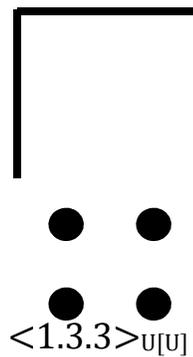
$\langle 1.2.3 \rangle_{R[S,U]}$

2.3.4.



$\langle 1.2.3 \rangle_{U[U]}$

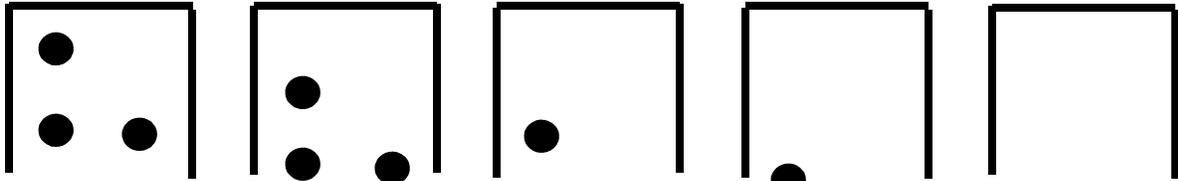
2.3.5.



$\langle 1.3.3 \rangle_{U[U]}$

(3.1, 2.3, x.y)	(3.1, 2.2, x.y)	(3.1, 2.1, x.y)	(y.x, 2.2, 2.3)	(y.x, 3.2, 2.3)
(y.x, 3.2, 2.3)	(1.3, 2.2, 2.3)	(1.3, 1.2, 2.3)	(3.1, 2.2, x.y)	(3.1, 2.3, x.y)

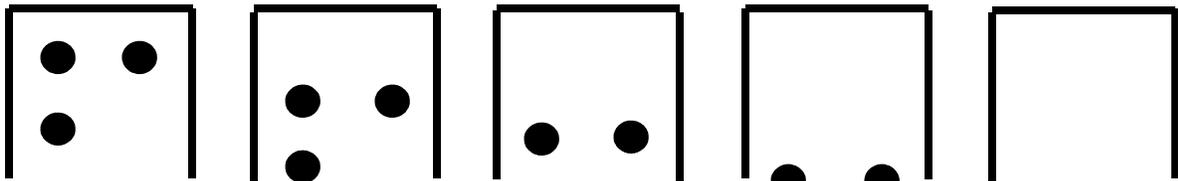
2.3.6.	2.3.7.	2.3.8.	2.3.9.	2.3.10.
--------	--------	--------	--------	---------



$\langle 1.3.2 \rangle_{S[S]}$	$\langle 1.2.2 \rangle_{S[S]}$	$\langle 1.2.2 \rangle_{R[S,U]}$	$\langle 1.2.2 \rangle_{U[S]}$	$\langle 1.3.2 \rangle_{U[U]}$
--------------------------------	--------------------------------	----------------------------------	--------------------------------	--------------------------------

(3.1, 2.3, x.y)	(3.1, 2.2, x.y)	(3.1, 2.1, x.y)	(y.x, 2.2, 1.3)	(y.x, 3.2, 1.3)
(y.x, 3.2, 1.3)	(y.x, 2.2, 1.3)	(y.x, 1.2, 1.3)	(3.1, 2.2, x.y)	(3.1, 2.3, x.y)

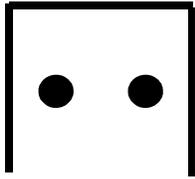
2.3.11.	2.3.12.	2.3.13.	2.3.14.	2.3.15.
---------	---------	---------	---------	---------



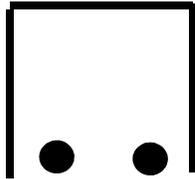
$\langle 1.3.2 \rangle_{S[U]}$	$\langle 1.2.2 \rangle_{S[U]}$	$\langle 1.2.2 \rangle_{R[U,S]}$	$\langle 1.2.2 \rangle_{U[U]}$	$\langle 1.3.2 \rangle_{U[U]}$
--------------------------------	--------------------------------	----------------------------------	--------------------------------	--------------------------------

(3.1, 2.3, x.y)	(3.1, 2.2, x.y)	(3.1, 2.1, x.y)	(y.x, 2.2, 1.3)	(y.x, 3.2, 1.3)
(y.x, 3.2, 1.3)	(y.x, 2.2, 1.3)	(y.x, 1.2, 1.3)	(3.1, 2.2, x.y)	(3.1, 2.3, x.y)

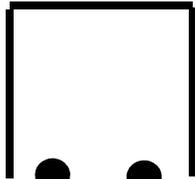
2.3.17.



2.3.17.



2.3.18.



2.3.19.



2.3.20.



$\langle 1.3.1 \rangle_{S[S]}$

$\langle 1.2.1 \rangle_{S[S]}$

$\langle 1.2.1 \rangle_{R[S,U]}$

$\langle 1.2.1 \rangle_{U[U]}$

$\langle 1.3.1 \rangle_{U[U]}$

(3.1, 2.3, x.y)

(3.1, 2.2, x.y)

(3.1, 2.1, x.y)

(y.x, 2.2, 1.3)

(y.x, 3.2, 1.3)

(y.x, 3.2, 1.3)

(y.x, 2.2, 1.3)

(y.x, 1.2, 1.3)

(3.1, 2.2, x.y)

(3.1, 2.3, x.y)

Literatur

Toth, Alfred, Grundlegung der ontisch-semiotischen Sysemtheorie. In: Electronic Journal for Mathematical Semiotics 2015a

Toth, Alfred, Punktuelle vs. lineare raumsemiotische Relationen. In: Electronic Journal for Mathematical Semiotics 2015b

22.2.2015