Prof. Dr. Alfred Toth

Theorie zellulärer semiotischer Automaten zur Grundlegung einer ontischen Nacht

1. In Toth (2019a) hatten wir die „Theorie einer ontischen Nacht“ dargestellt, ein ergänzendes Kapitel zu meinem Buche „The Theory of the Night“ (Toth 2016): Es handelt sich bei allen Teilkapiteln dieser Theorie der Subjektivität um Handlungsanweisungen, die in Form von unterschiedlich reflektierten semiotischen Kreationsschemata (vgl. dazu Bense 1979, S. 87 ff.) dargestellt werden. Die Kreationsschemata sind sozusagen die Regeln einer vereinheitlichten arithmetischen Grammatik, die in verschiedenen mathematischen „Sprachen“ dargestellt wird: bisher in den Sprachen der Peano-, der surrealen, der Eisenstein-, der quadralektischen, der systemischen, der regionalen, der relativen Zahlen und in zwei „Dialekten“ der qualitativen Zahlen.

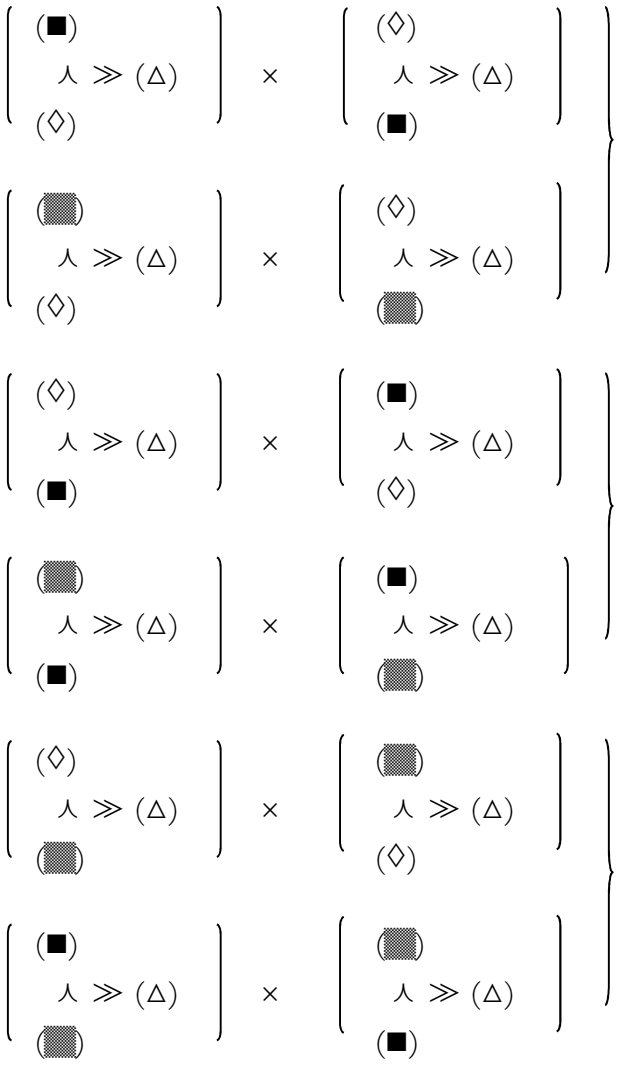
2. Im folgenden Beitrag, der Toth (2019b) und eine Reihe von weiteren Aufsätzen fortsetzt, wollen wir die kreationstheoretischen Handlungsanweisungen für die „Dialekte“ der qualitativen Zahlen dadurch vereinheitlichen und operationalisieren, daß wir sie in der Form von zellulären Automaten darstellen. Dabei verwenden wir die folgenden Symbole aus dem nachstehenden Isomorphieschema von Zahlen, Zeichen und Objekten

Zahl	≅	Zeichen	≅	Objekt
0		0.	≅	▒
1	≅	1.	≅	■
2	≅	2.	≅	◊
3	≅	3.	≅	△.

I. Automaten der 2 · 24 triadischen semiotischen Partialrelationen

1. Präsemiotisches Dualsystem (▒ ■ ◊ △) × (△ ◊ ■ ▒)

Qualitative Automaten (Q = sO)

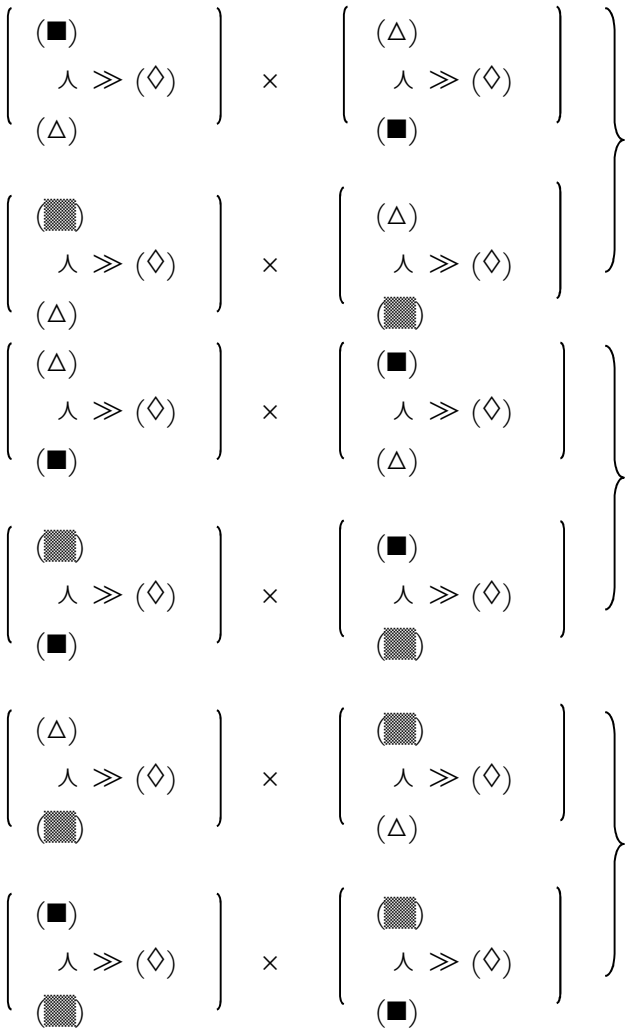


Input: M = oS

Input: O = oO

Input: I = sS

Mediale Automaten (M = oS)

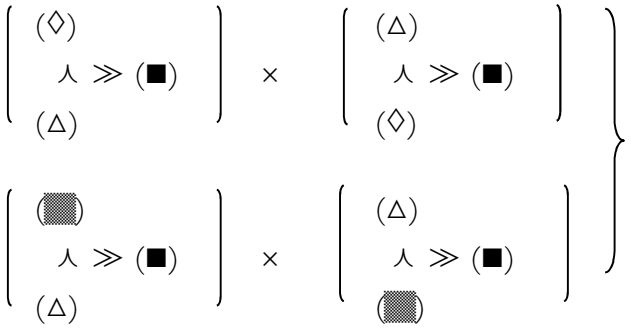


Input: Q = sO

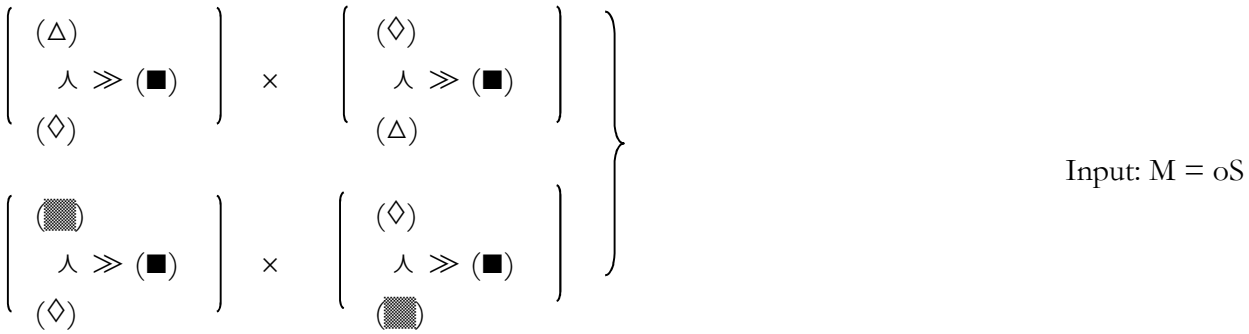
Input: O = oO

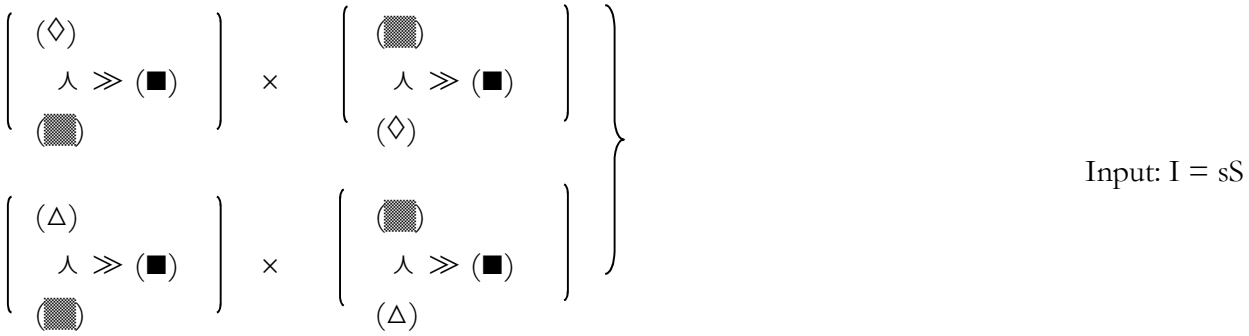
Input: I = sS

Objektale Automaten (O = oO)

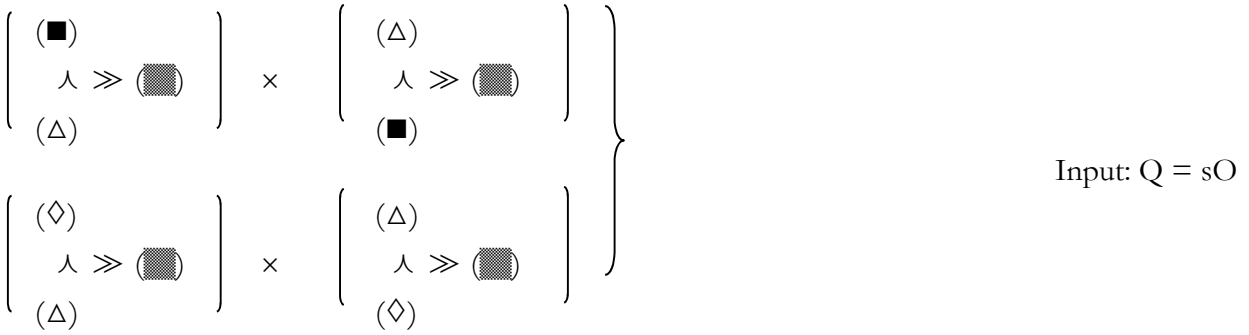


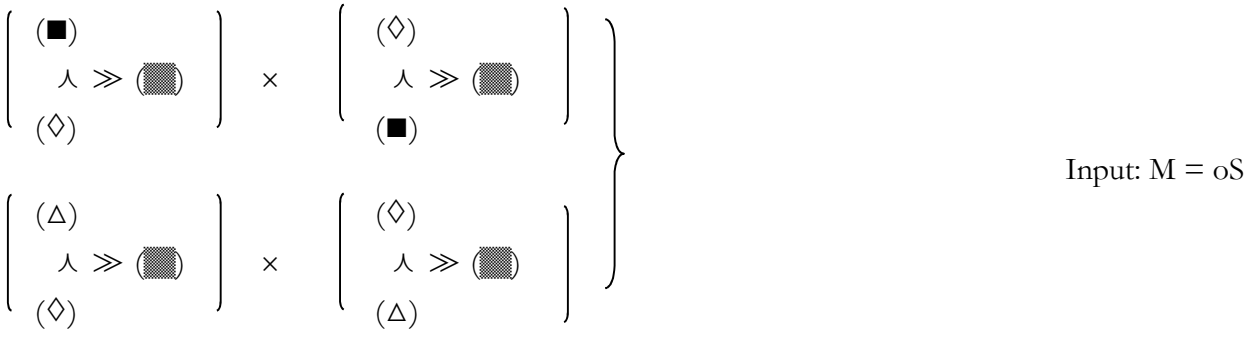
Input: Q = sO

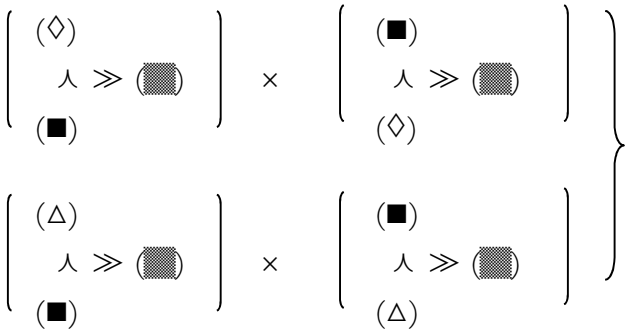




Interpretative Automaten (I = sS)



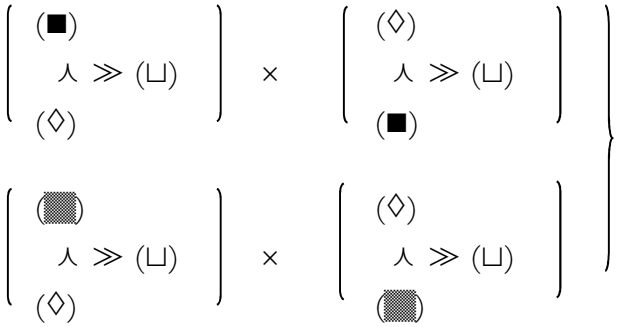




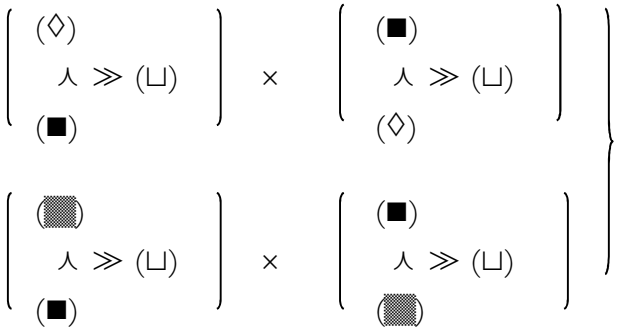
Input: O = oO

2. Präsemiotisches Dualsystem (▒ ■ ◊ ⊔) × (⊔ ◊ ■ ▒)

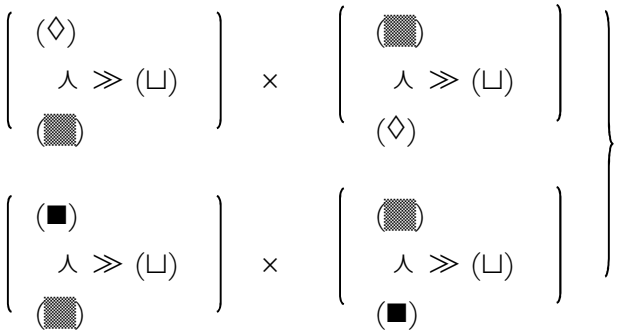
Qualitative Automaten (Q = sO)



Input: M = oS

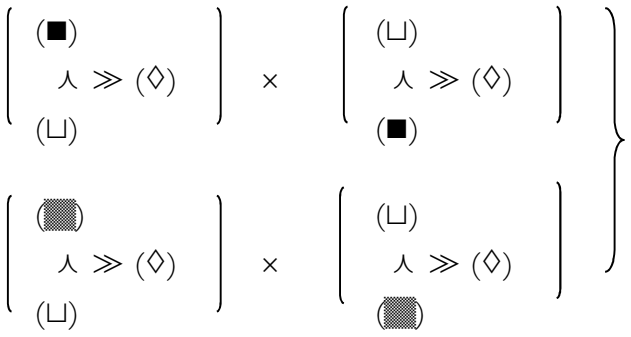


Input: O = oO

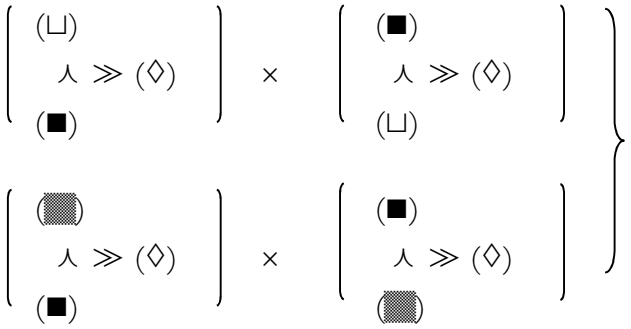


Input: I = sS

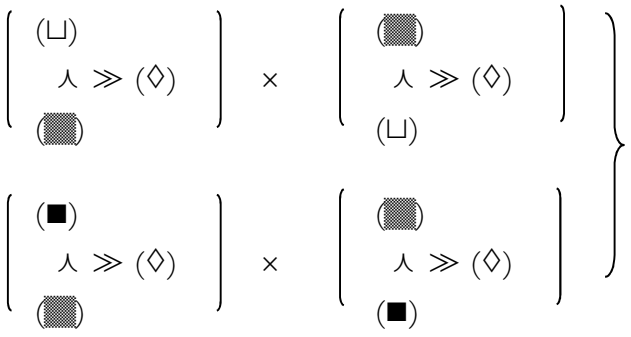
Mediale Automaten (M = oS)



Input: Q = sO

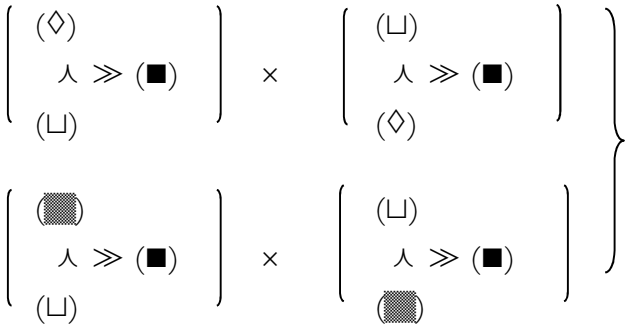


Input: O = oO

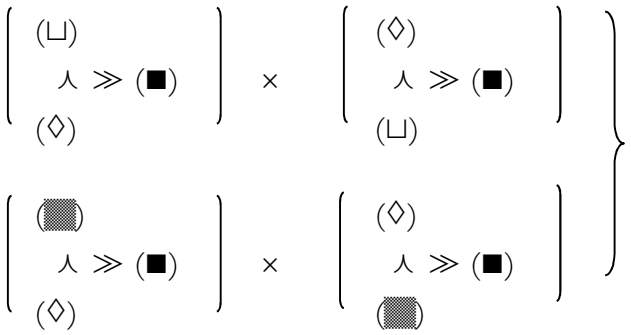


Input: I = sS

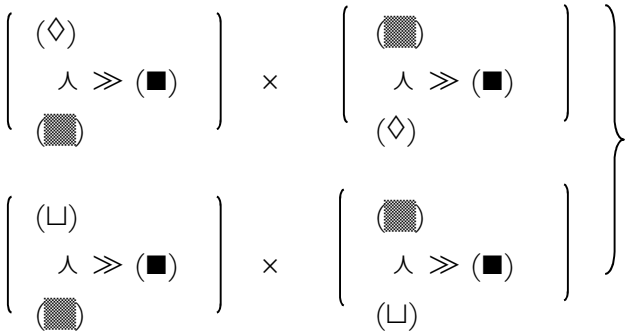
Objektale Automaten (O = oO)



Input: Q = sO

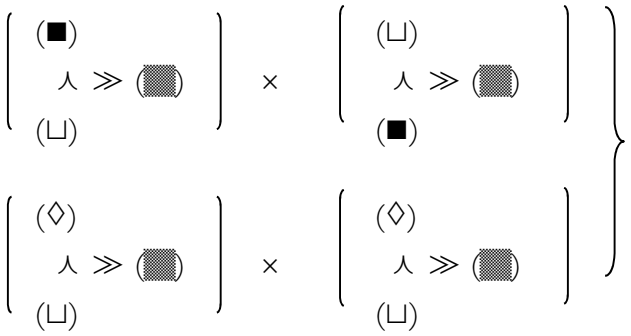


Input: M = oS

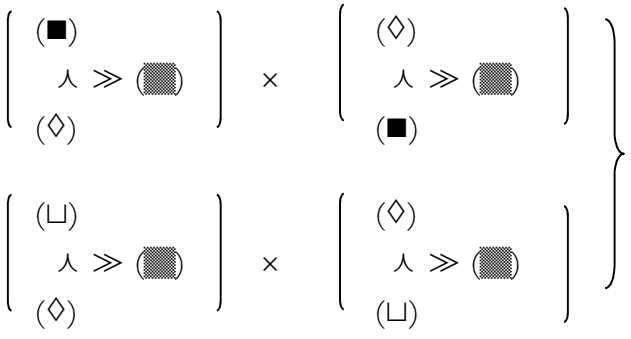


Input: I = sS

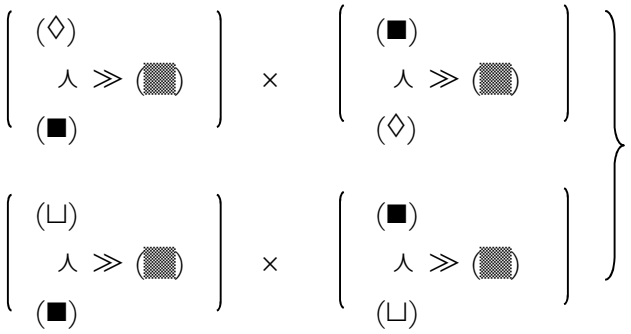
Interpretative Automaten (I = sS)



Input: Q = sO



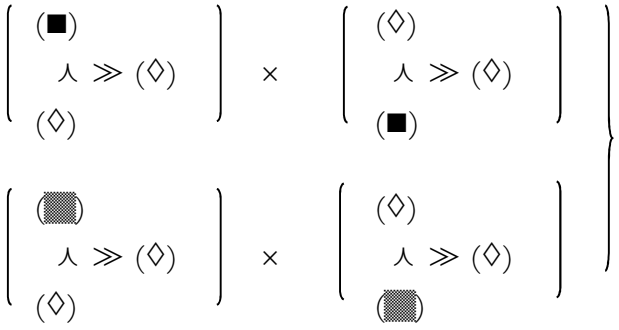
Input: M = oS



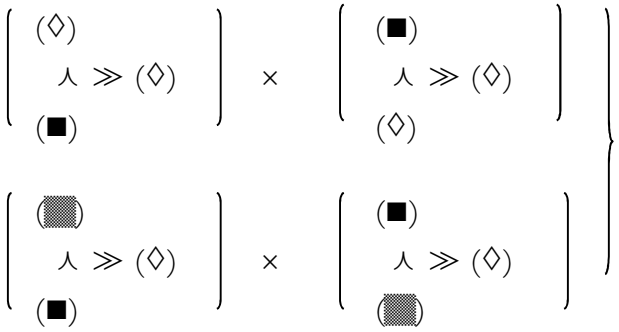
Input: O = oO

3. Präsemiotisches Dualsystem (▒ ■ ◊ ◊) × (◊ ◊ ■ ▒)

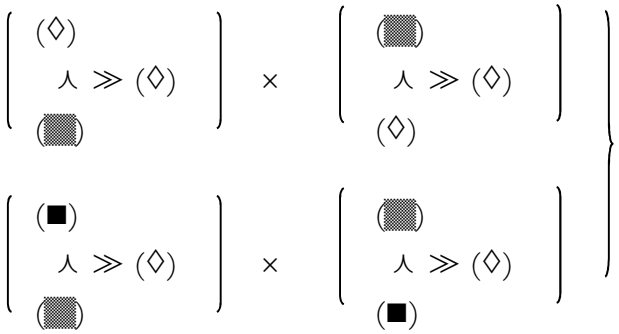
Qualitative Automaten (Q = sO)



Input: M = oS

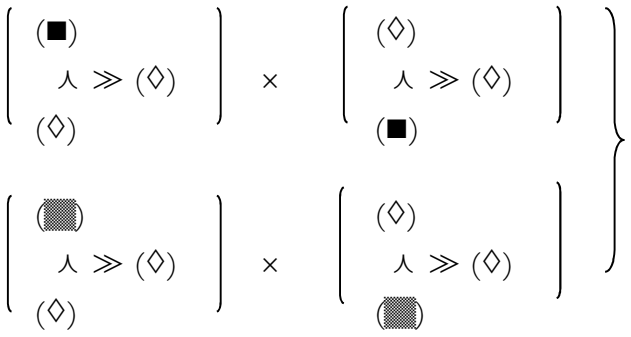


Input: O = oO

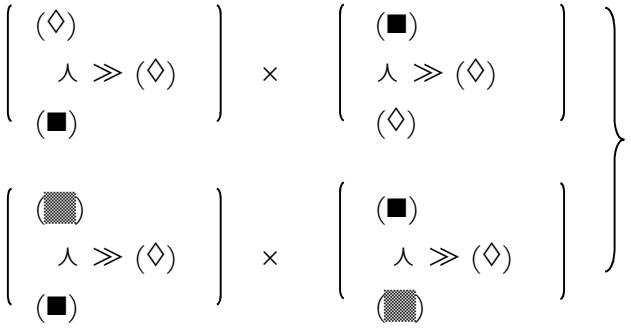


Input: I = sS

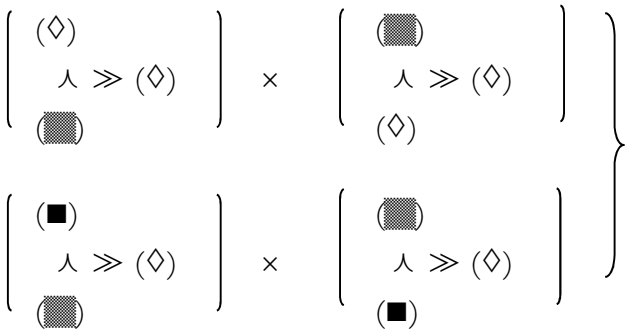
Mediale Automaten (M = oS)



Input: Q = sO

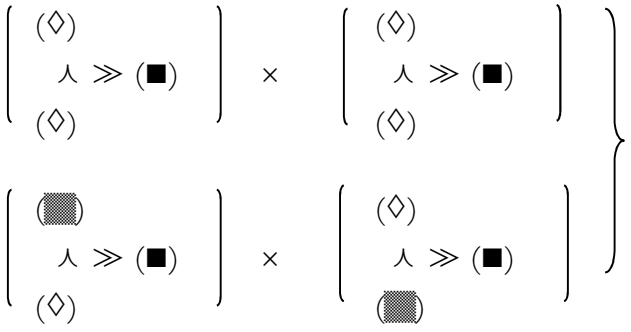


Input: O = oO

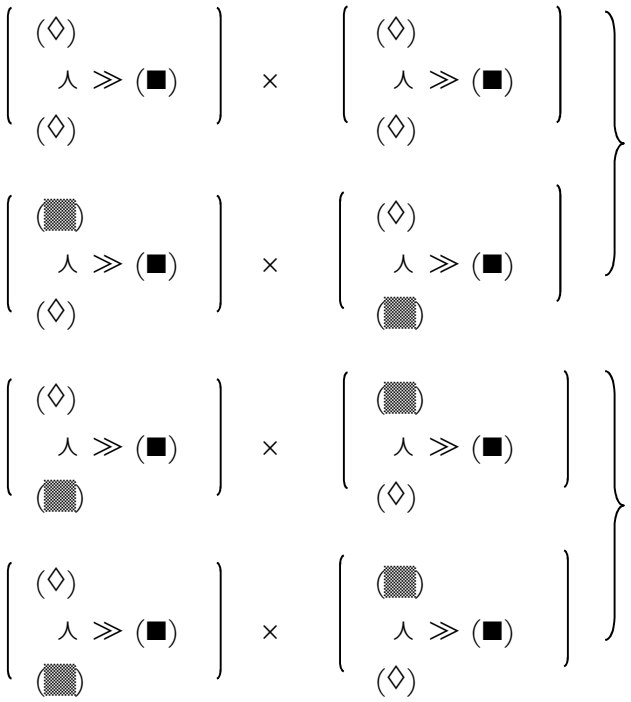


Input: I = sS

Objektale Automaten (O = oO)



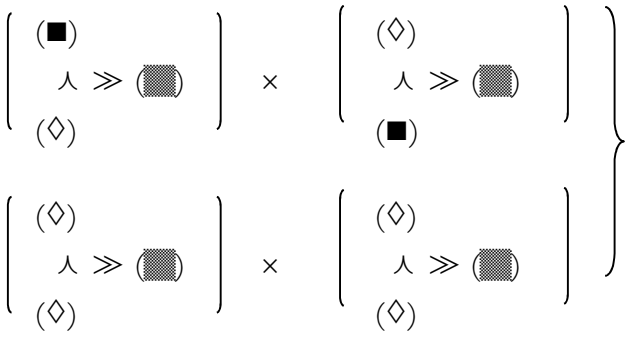
Input: Q = sO



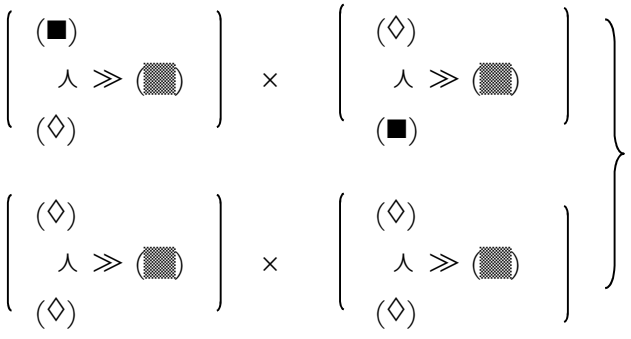
Input: M = oS

Input: I = sS

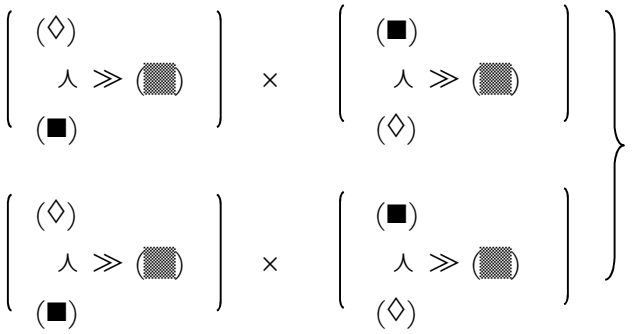
Interpretative Automaten (I = sS)



Input: Q = sO



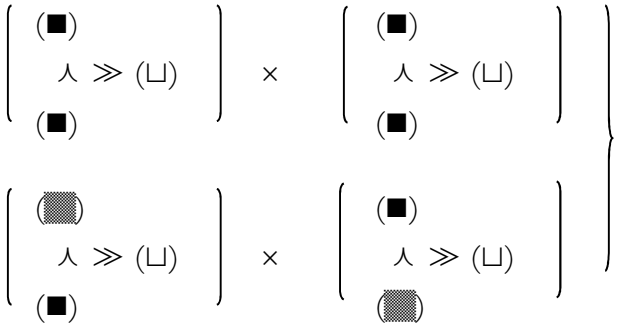
Input: M = oS



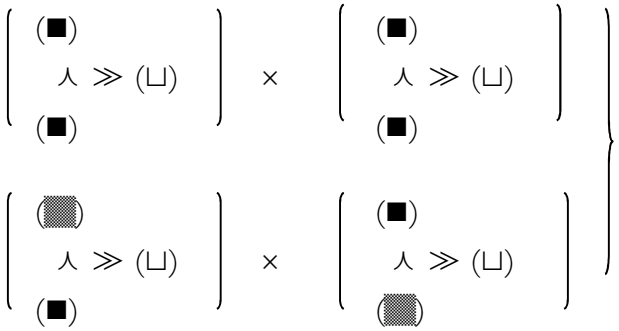
Input: O = oO

4. Präsemiotisches Dualsystem (▒ ■ ■ ⊔) × (⊔ ■ ■ ▒)

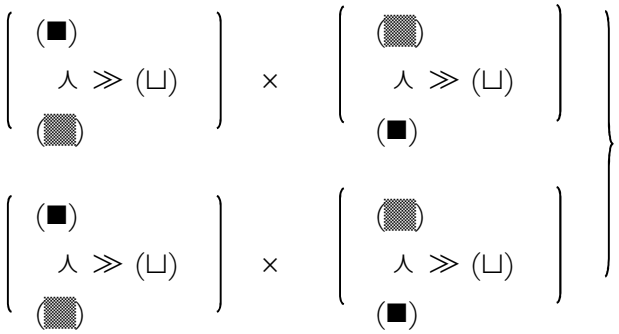
Qualitative Automaten (Q = sO)



Input: M = oS

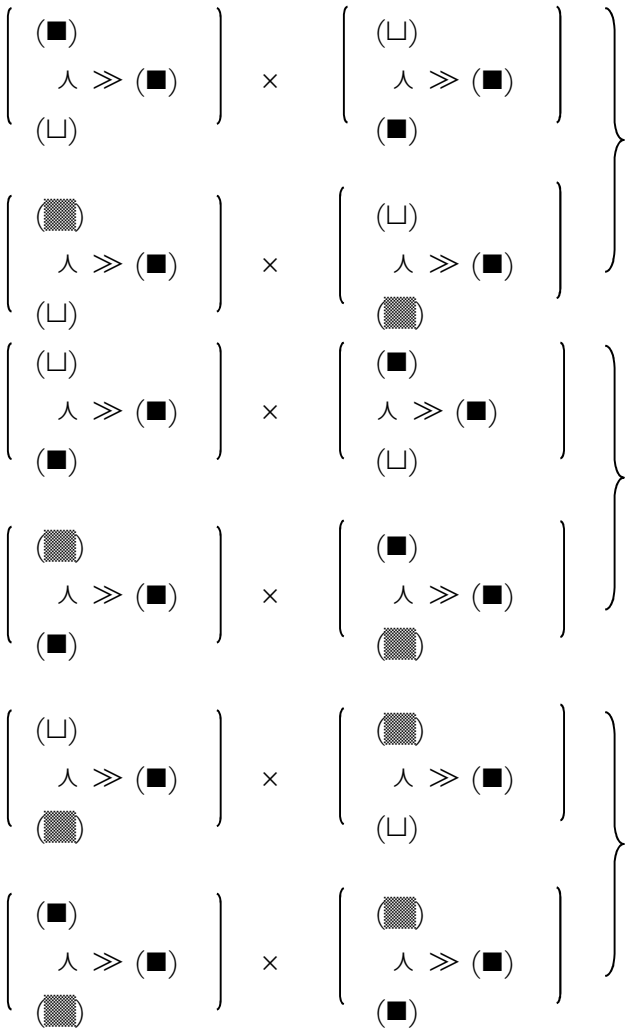


Input: O = oO

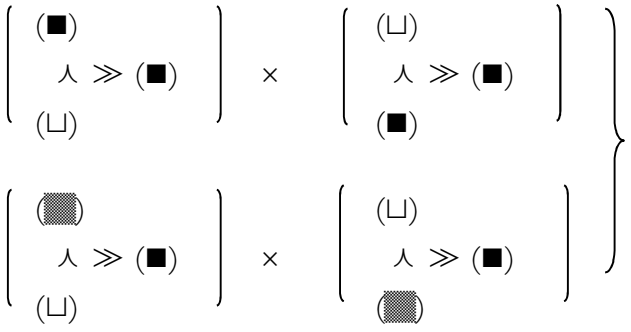


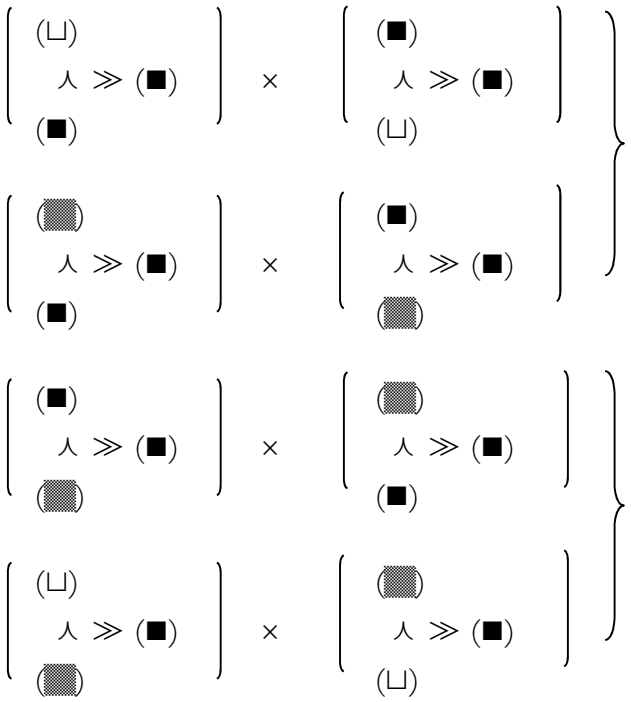
Input: I = sS

Mediale Automaten (M = oS)

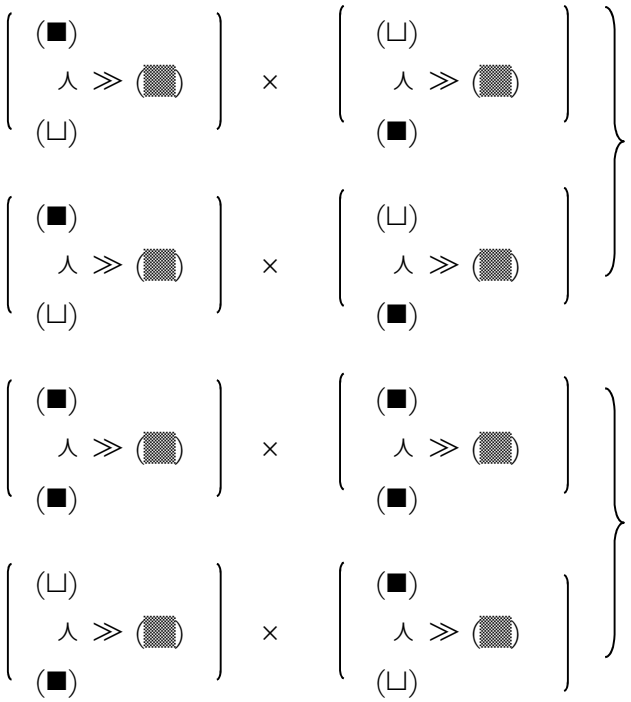


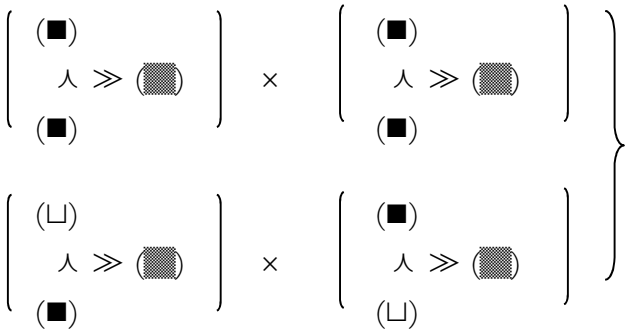
Objektale Automaten (O = oO)





Interpretative Automaten (I = sS)

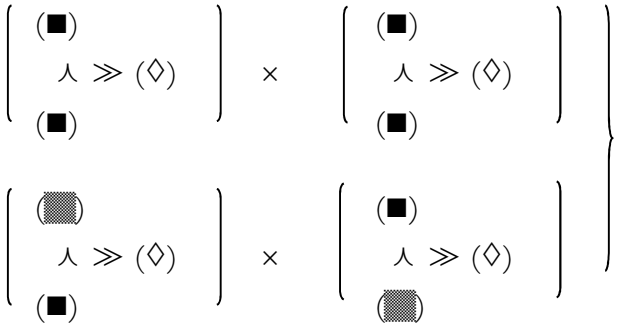




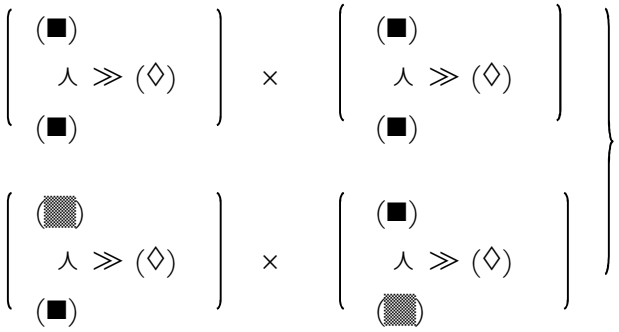
Input: O = oO

5. Präsemiotisches Dualsystem (▒ ■ ■ ◊) × (◊ ■ ■ ▒)

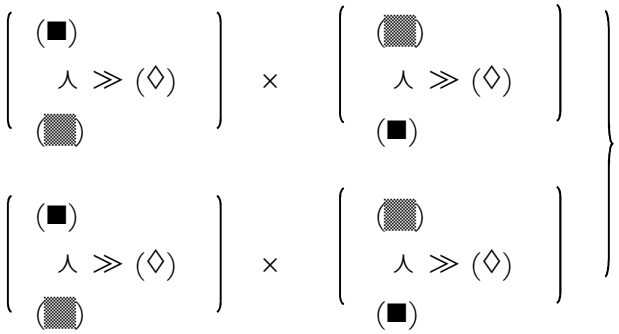
Qualitative Automaten (Q = sO)



Input: M = oS

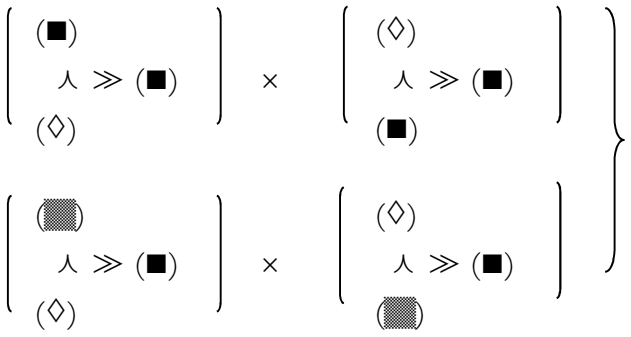


Input: O = oO

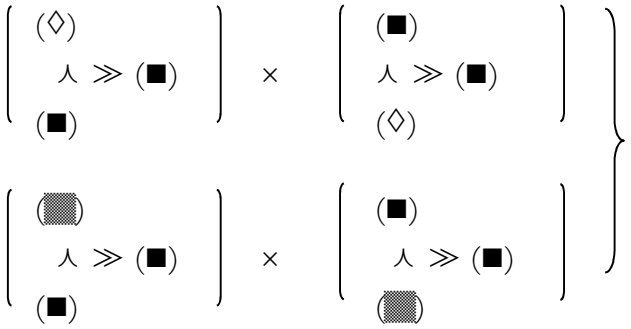


Input: I = sS

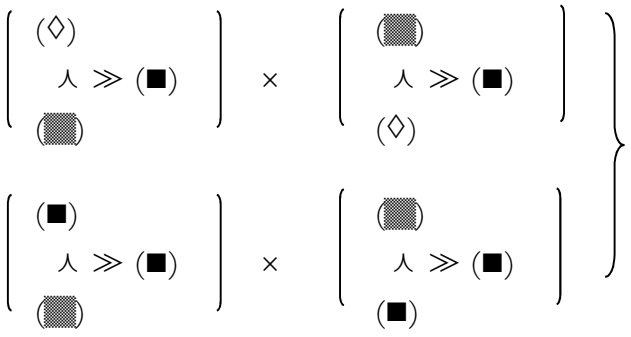
Mediale Automaten (M = oS)



Input: Q = sO

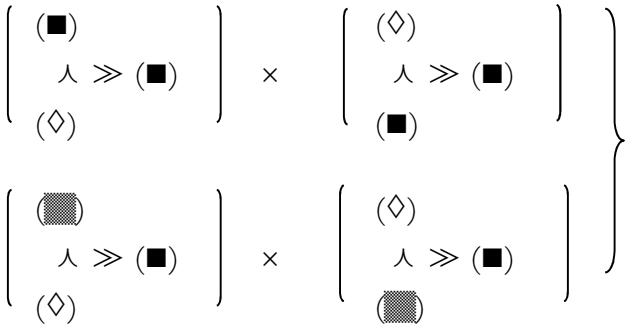


Input: O = oO

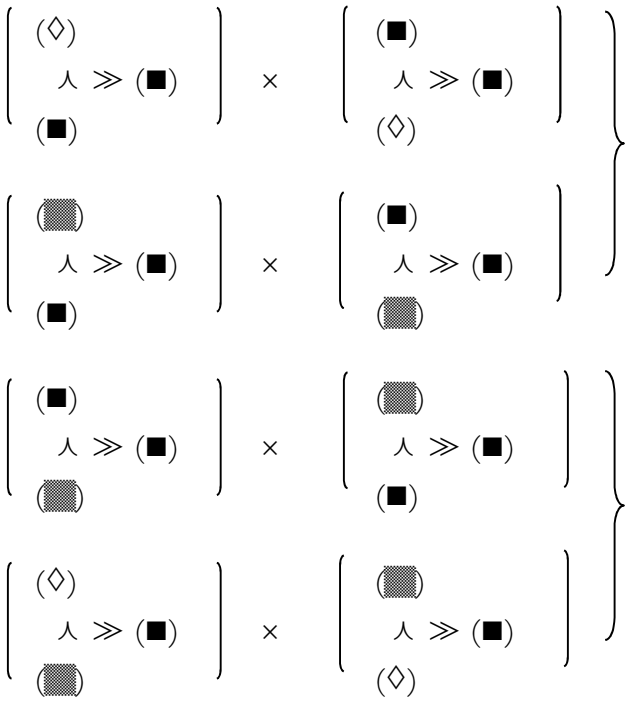


Input: I = sS

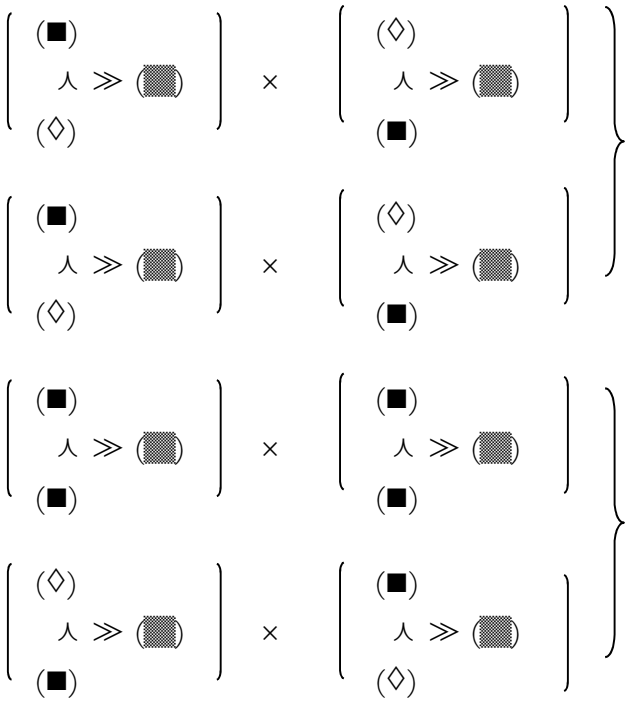
Objektale Automaten (O = oO)

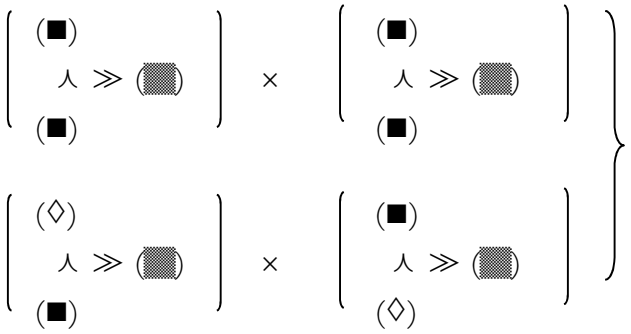


Input: Q = sO



Interpretative Automaten (I = sS)

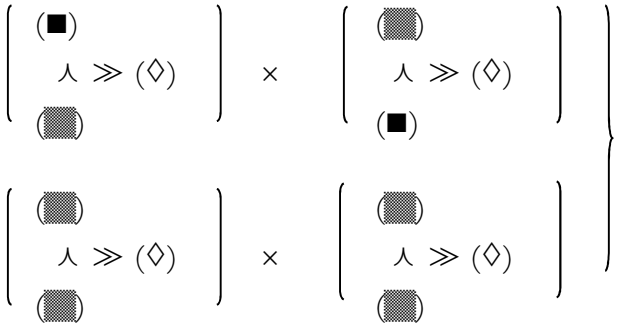




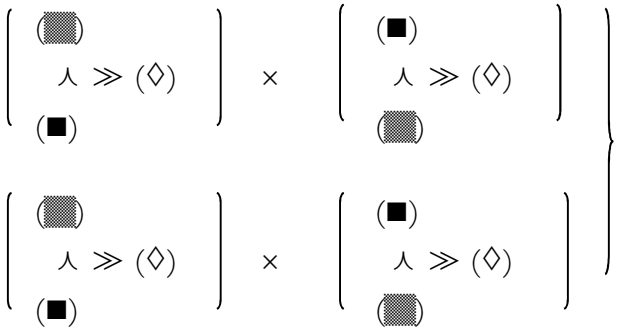
Input: O = oO

6. Präsemiotisches Dualsystem (▩ ■ ▩ ◊) × (◊ ▩ ■ ▩)

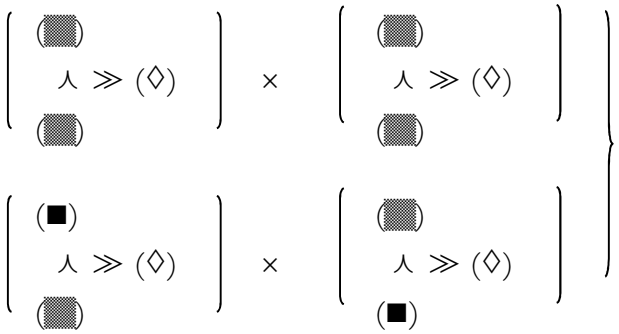
Qualitative Automaten (Q = sO)



Input: M = oS

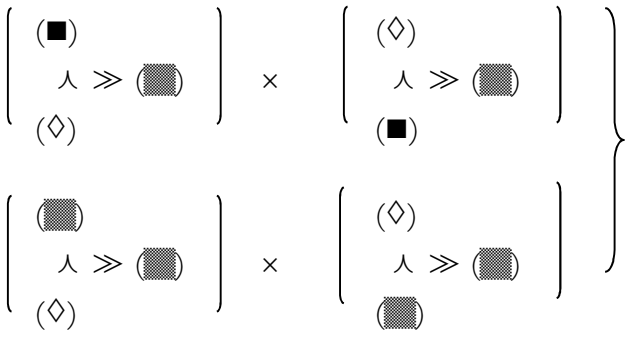


Input: O = oO

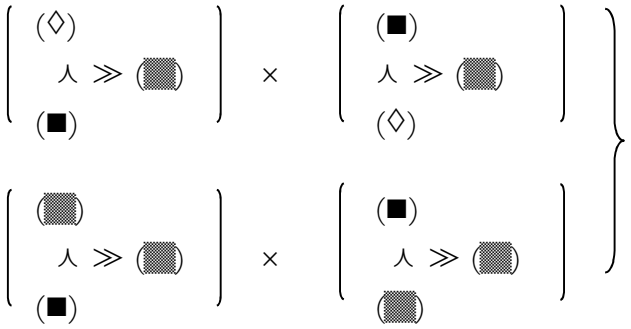


Input: I = sS

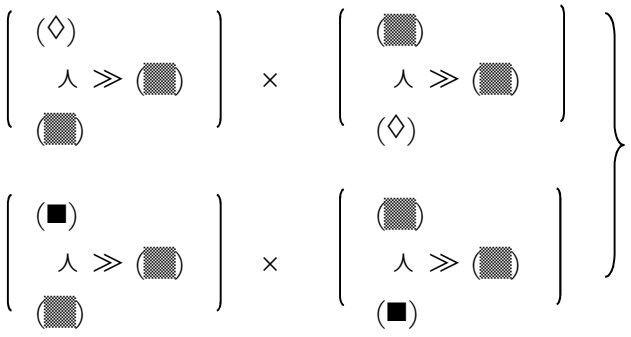
Mediale Automaten (M = oS)



Input: Q = sO

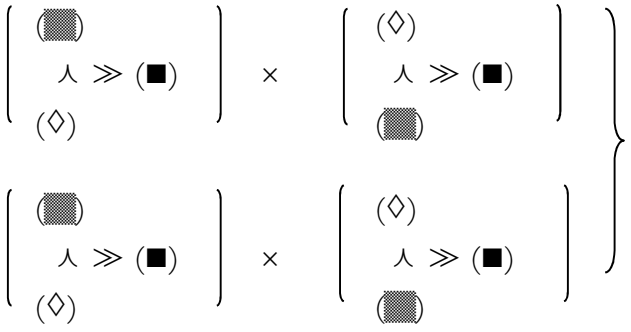


Input: O = oO

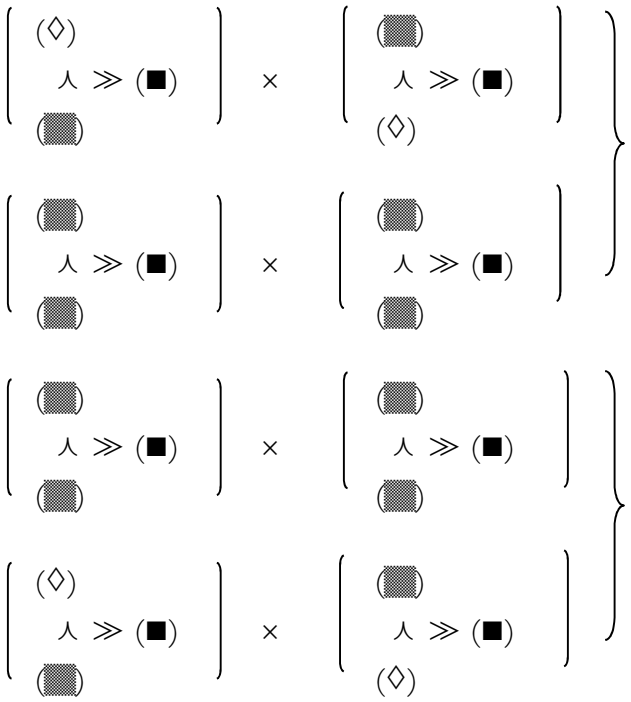


Input: I = sS

Objektale Automaten (O = oO)



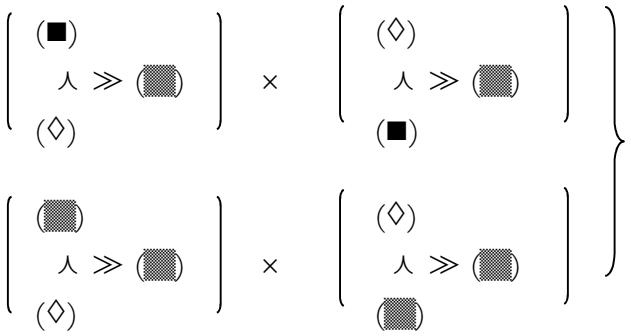
Input: Q = sO



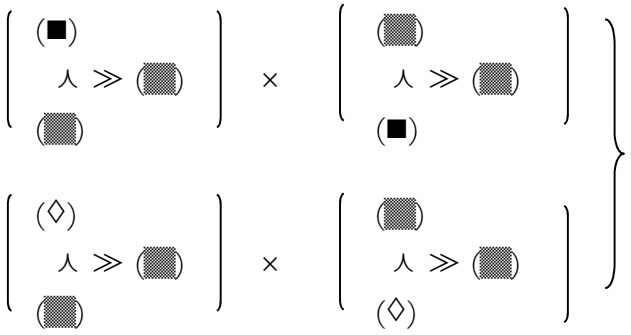
Input: M = oS

Input: I = sS

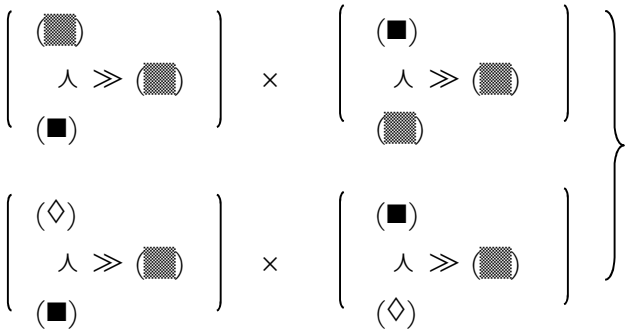
Interpretative Automaten (I = sS)



Input: Q = sO



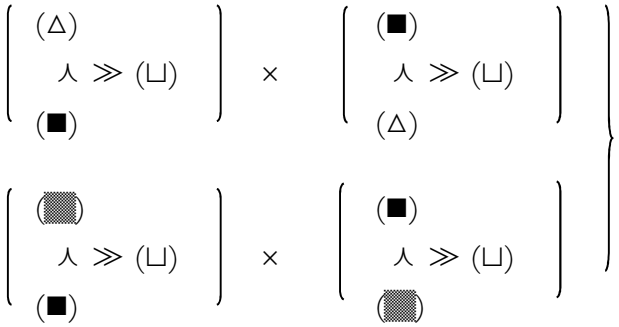
Input: M = oS



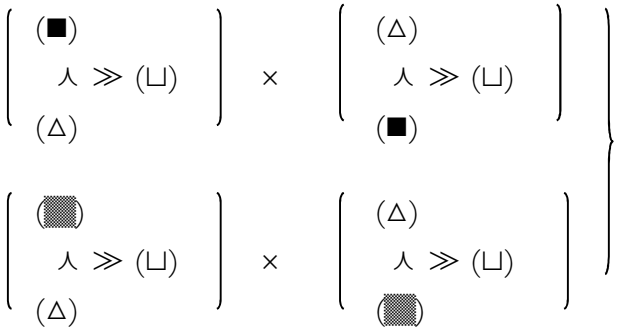
Input: O = oO

7. Präsemiotisches Dualsystem (▒ △ ■ ⊔) × (⊔ ■ △ ▒)

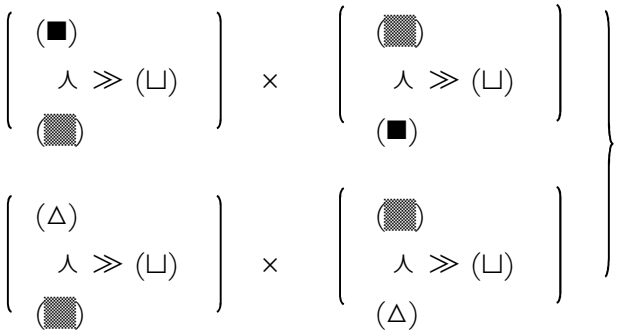
Qualitative Automaten (Q = sO)



Input: M = oS

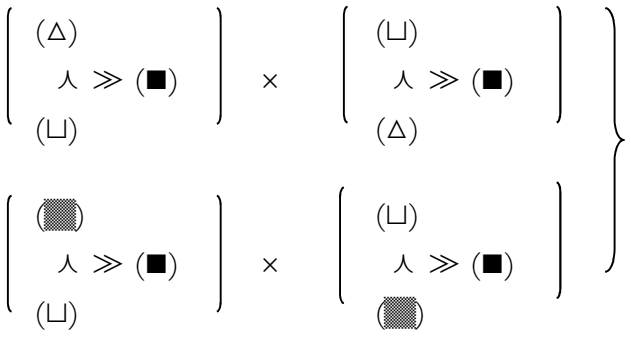


Input: O = oO

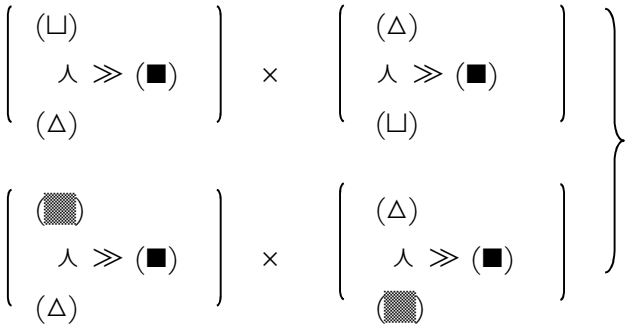


Input: I = sS

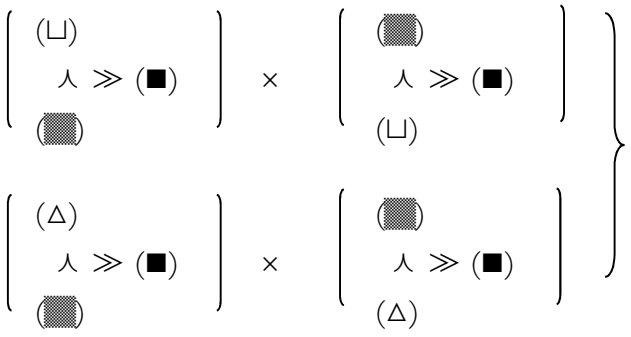
Mediale Automaten (M = oS)



Input: Q = sO

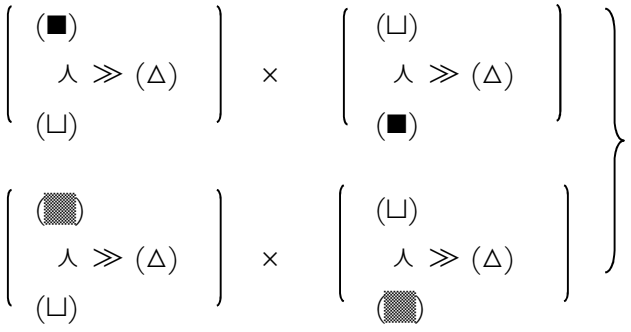


Input: O = oO

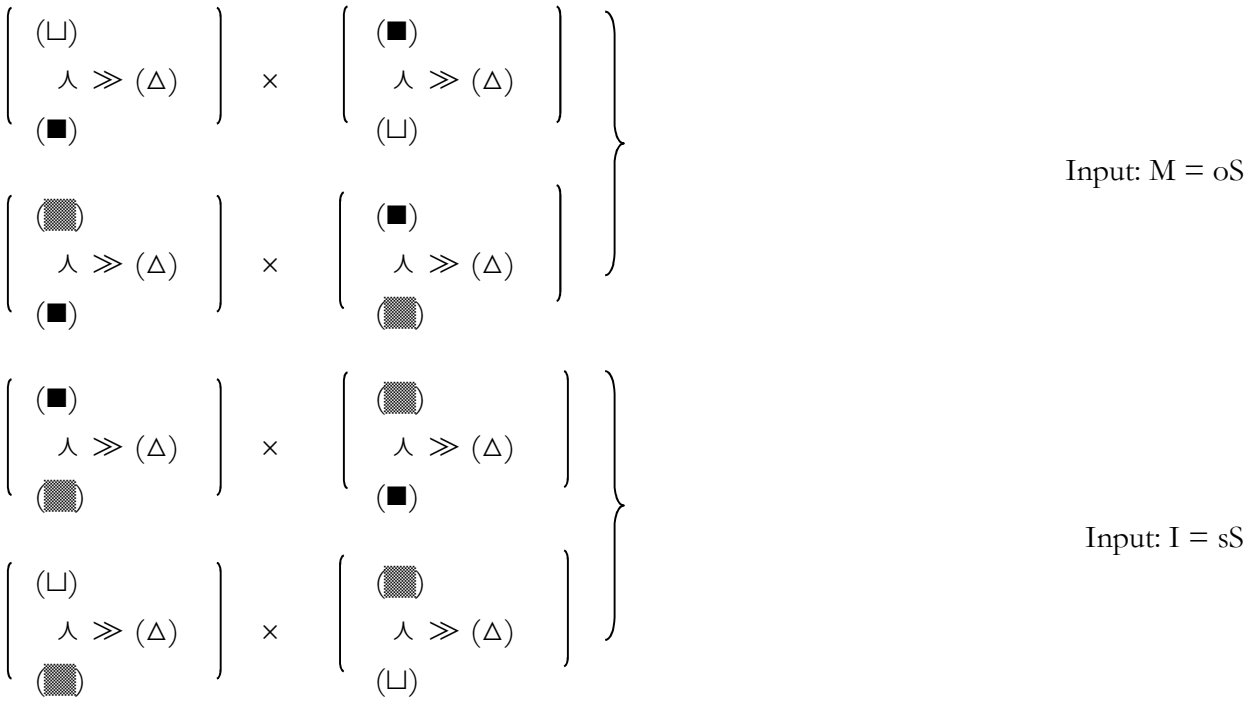


Input: I = sS

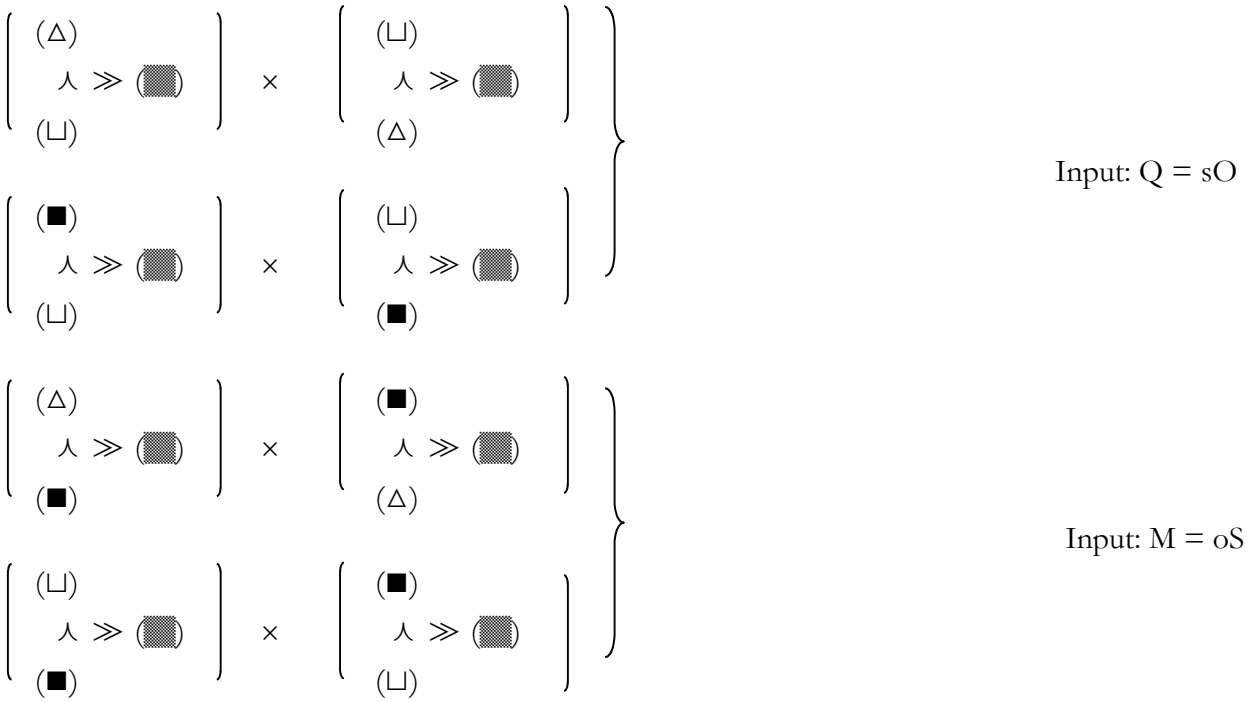
Objektale Automaten (O = oO)

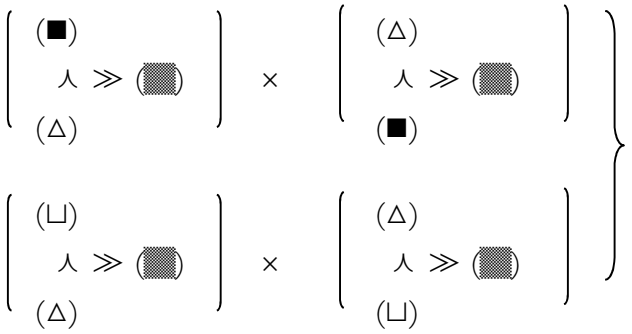


Input: Q = sO



Interpretative Automaten (I = sS)

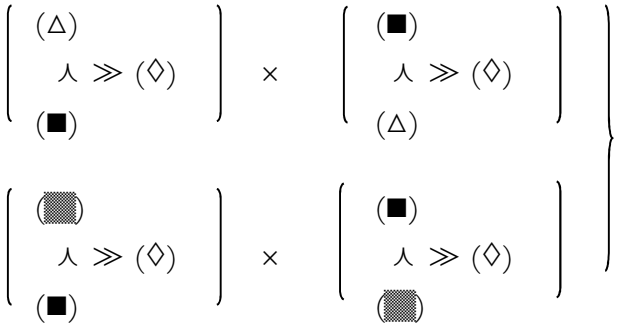




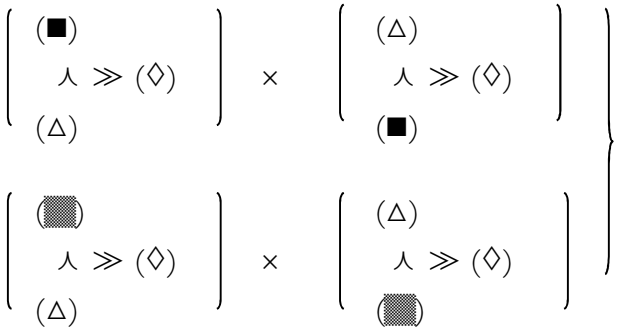
Input: O = oO

8. Präsemiotisches Dualsystem (▒ △ ■ ◊) × (◊ ■ △ ▒)

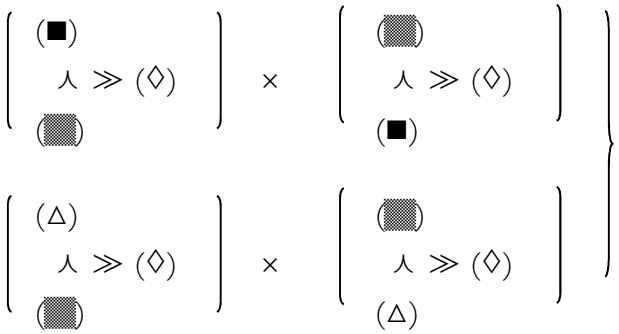
Qualitative Automaten (Q = sO)



Input: M = oS

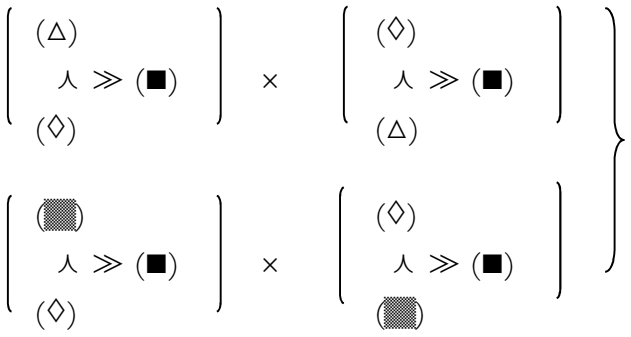


Input: O = oO

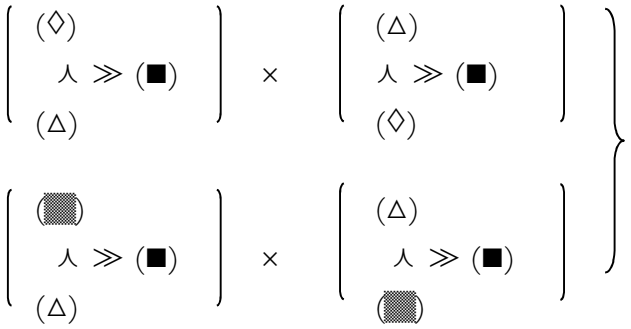


Input: I = sS

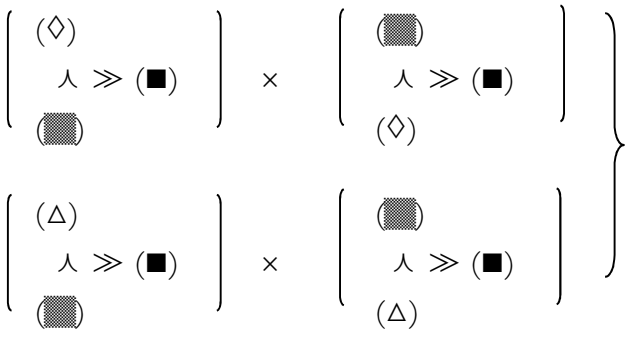
Mediale Automaten (M = oS)



Input: Q = sO

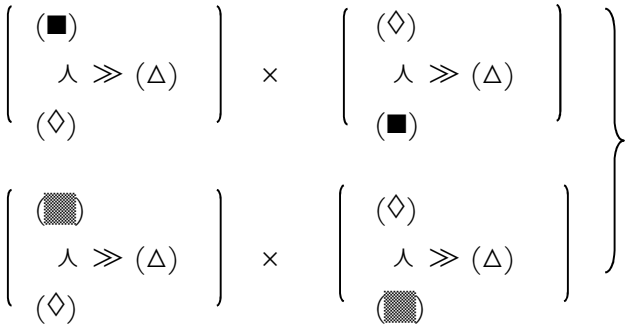


Input: O = oO

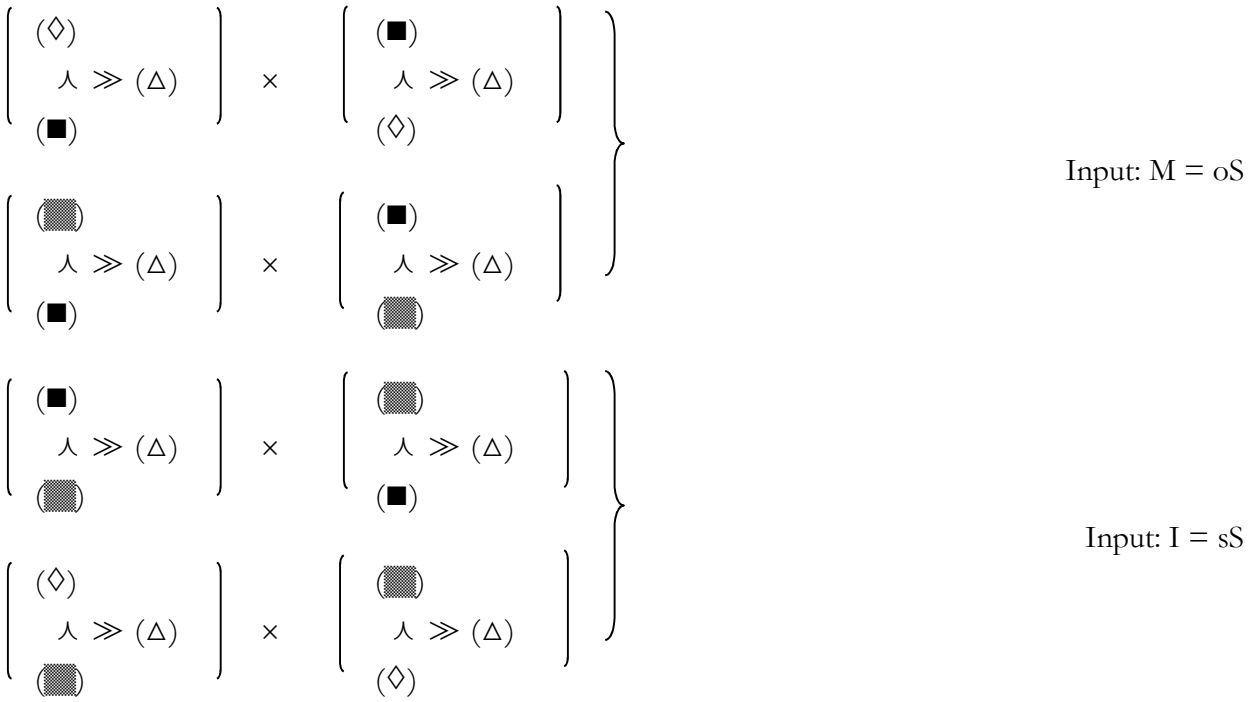


Input: I = sS

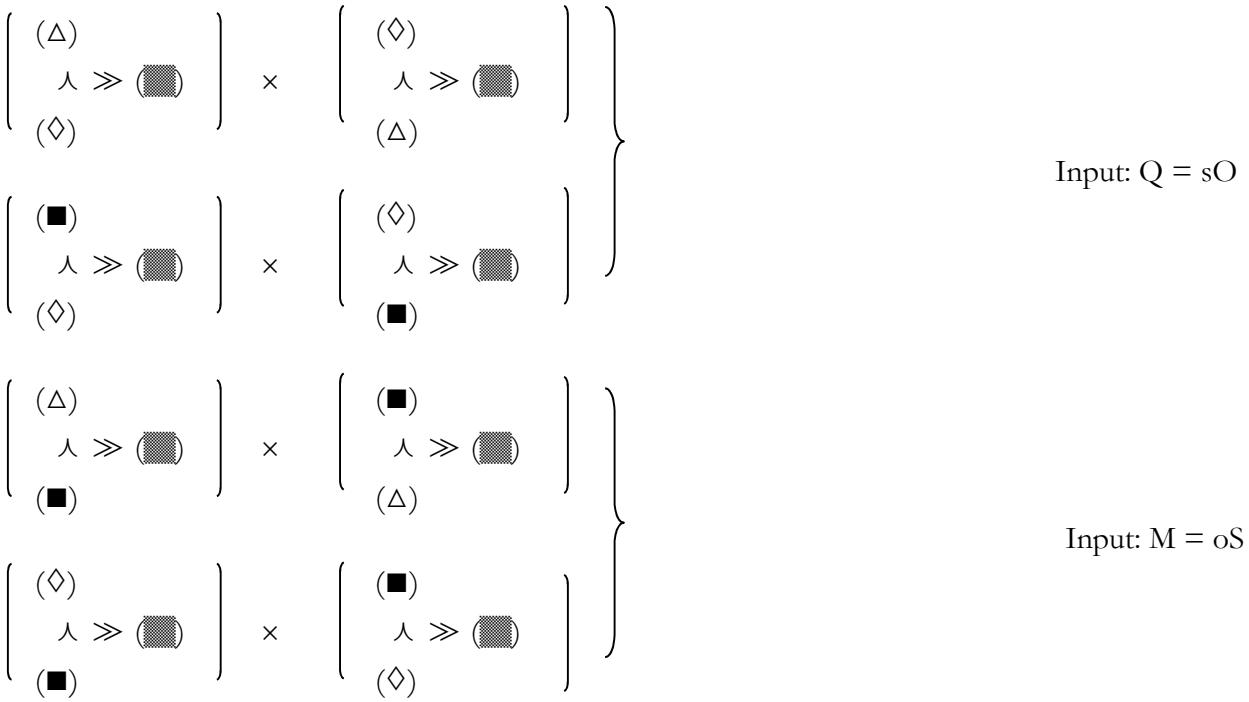
Objektale Automaten (O = oO)

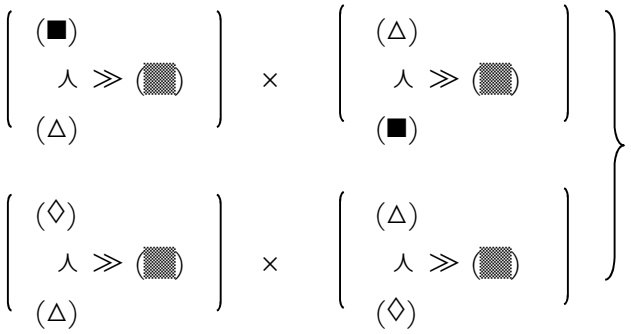


Input: Q = sO



Interpretative Automaten (I = sS)

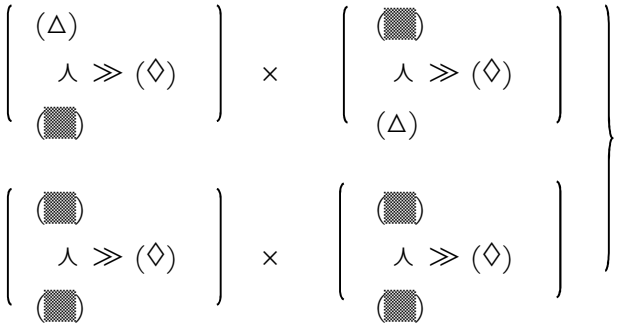




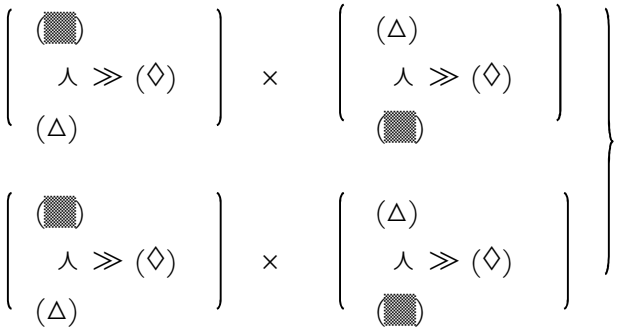
Input: O = oO

9. Präsemiotisches Dualsystem (▩ △ ▩ ◊) × (◊ ▩ △ ▩)

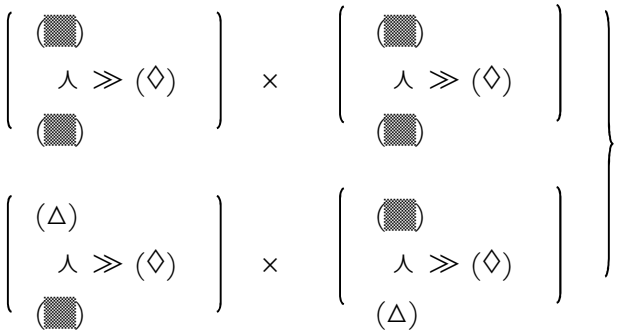
Qualitative Automaten (Q = sO)



Input: M = oS

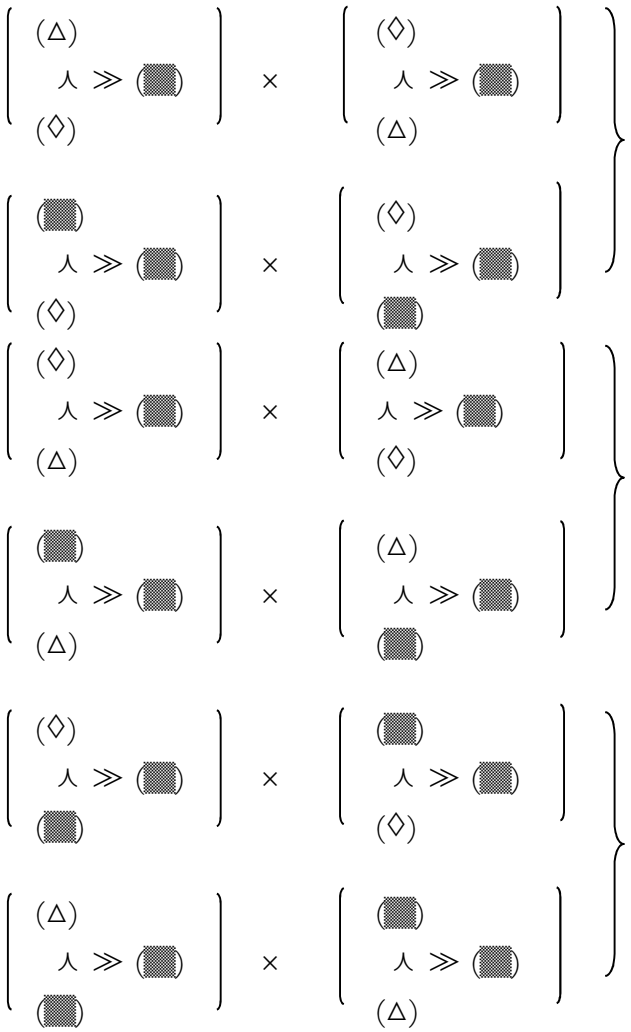


Input: O = oO



Input: I = sS

Mediale Automaten (M = oS)

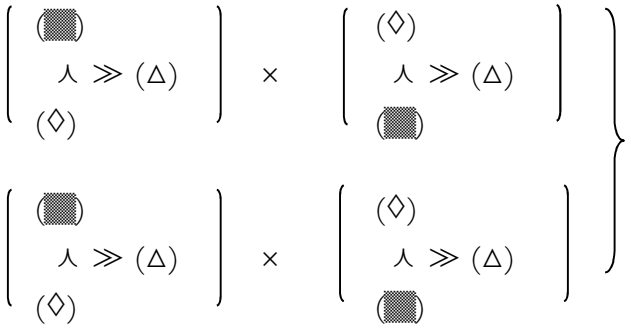


Input: Q = sO

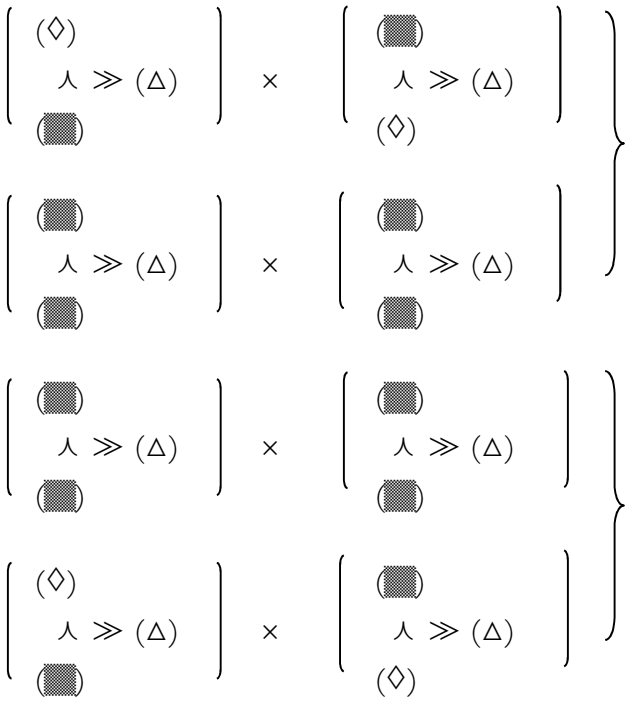
Input: O = oO

Input: I = sS

Objektale Automaten (O = oO)



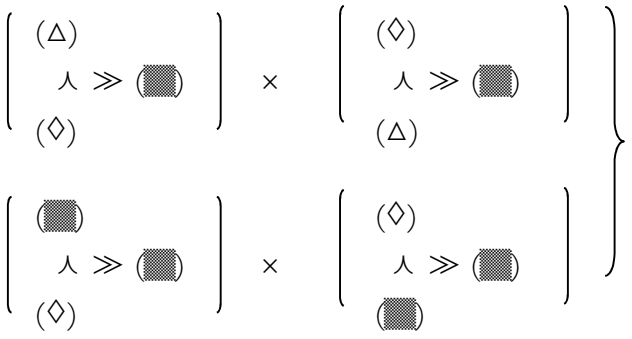
Input: Q = sO



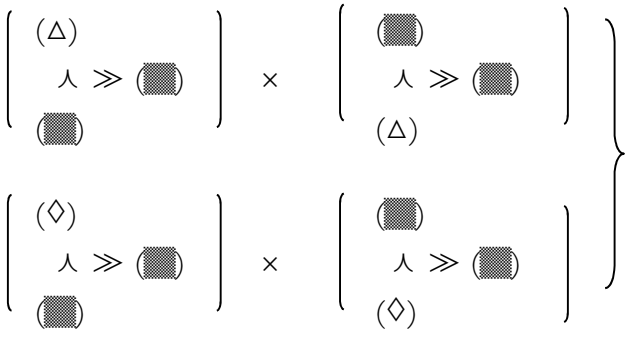
Input: M = oS

Input: I = sS

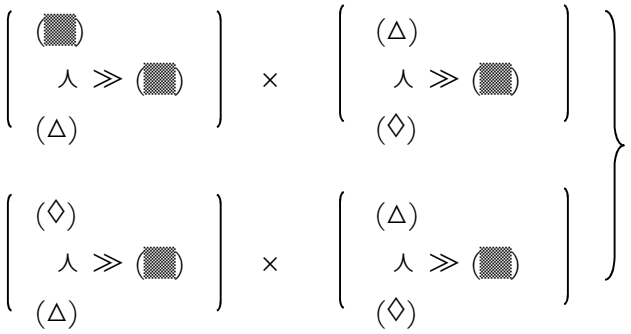
Interpretative Automaten (I = sS)



Input: Q = sO



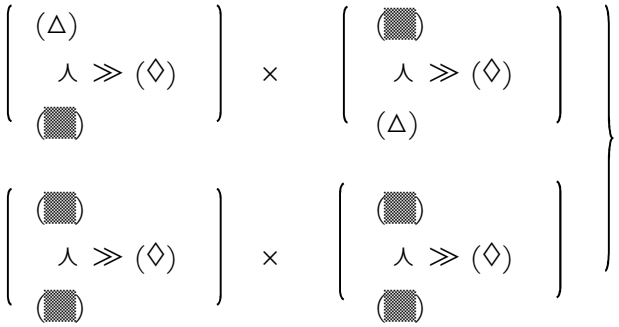
Input: M = oS



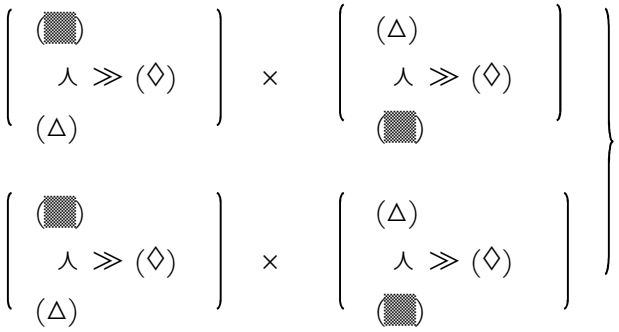
Input: O = oO

10. Präsemiotisches Dualsystem (▩ △ ▩ ◊) × (◊ ▩ △ ▩)

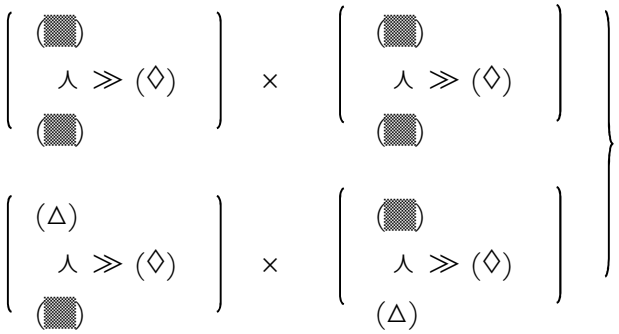
Qualitative Automaten (Q = sO)



Input: M = oS

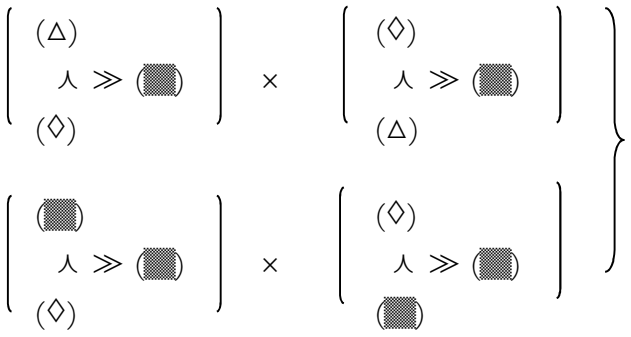


Input: O = oO

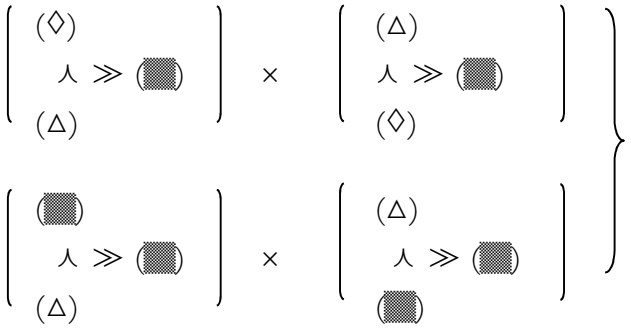


Input: I = sS

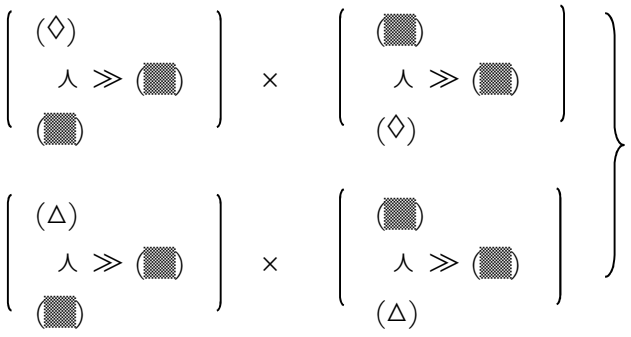
Mediale Automaten (M = oS)



Input: Q = sO

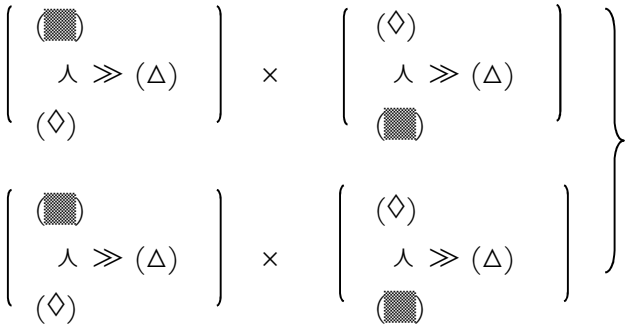


Input: O = oO

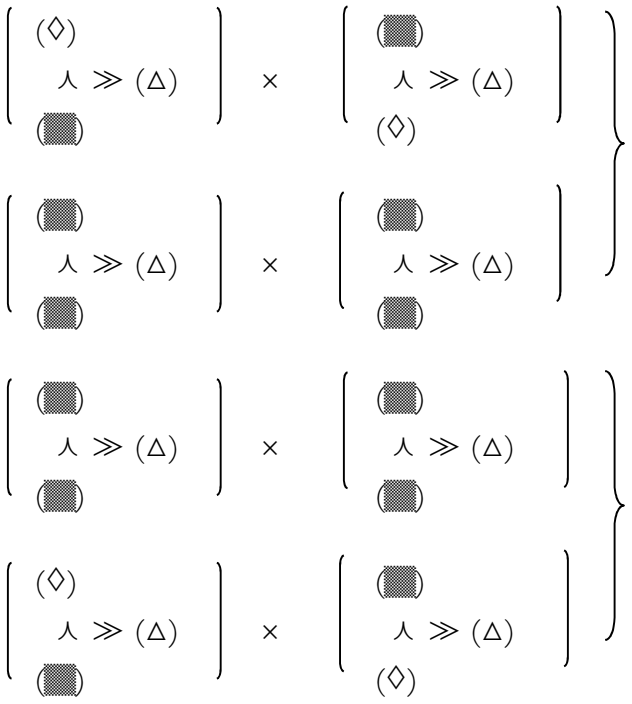


Input: I = sS

Objektale Automaten (O = oO)



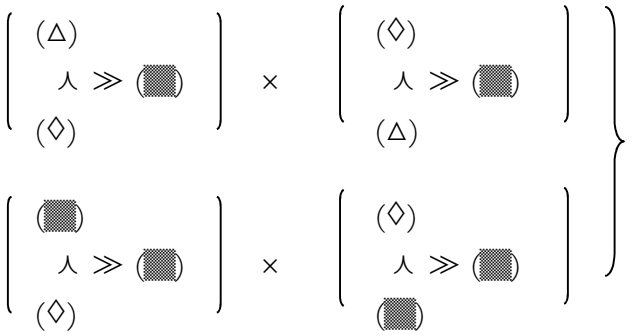
Input: Q = sO



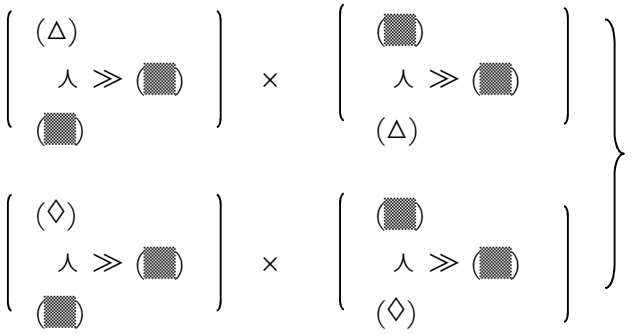
Input: M = oS

Input: I = sS

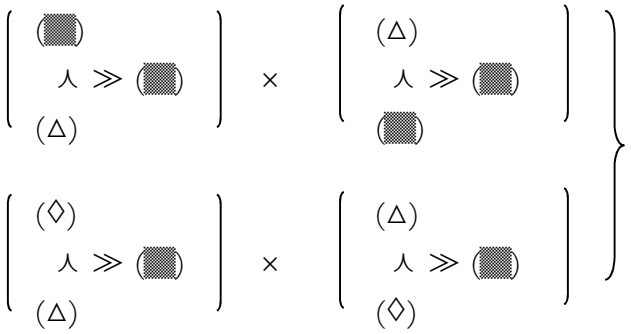
Interpretative Automaten (I = sS)



Input: Q = sO



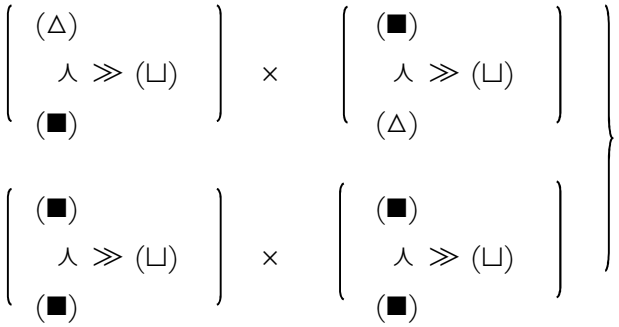
Input: M = oS



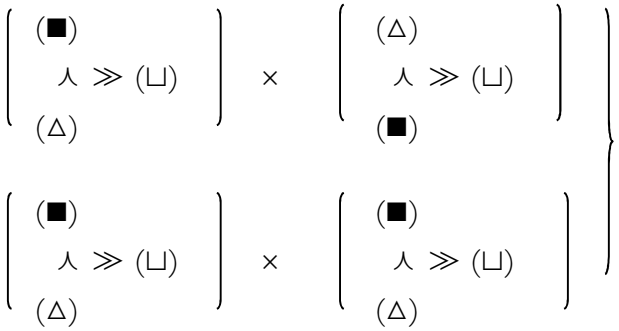
Input: O = oO

11. Präsemiotisches Dualsystem (■ △ ■ ⊔) × (⊔ ■ △ ■)

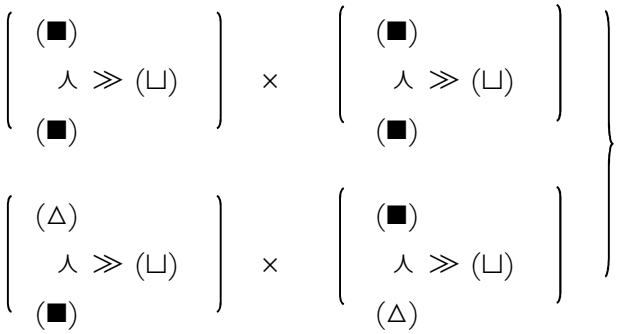
Qualitative Automaten (Q = sO)



Input: M = oS

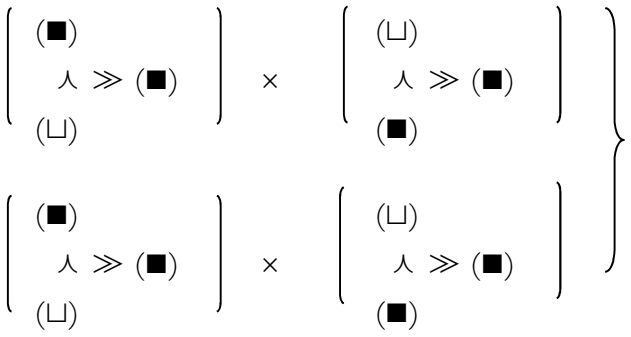


Input: O = oO

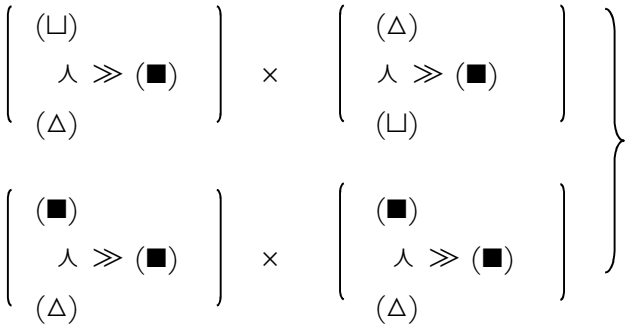


Input: I = sS

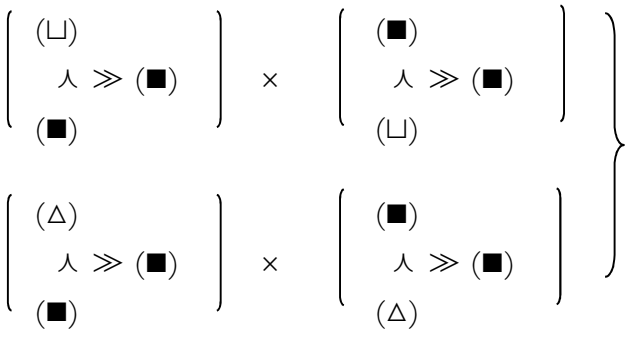
Mediale Automaten (M = oS)



Input: Q = sO

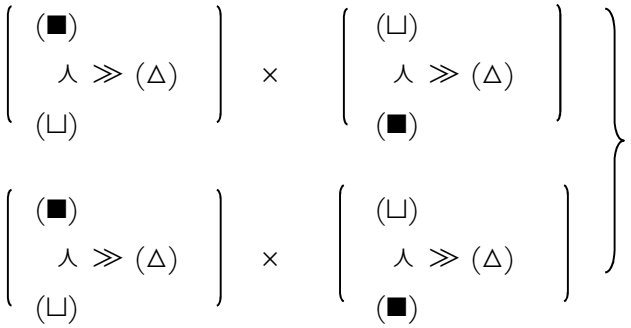


Input: O = oO

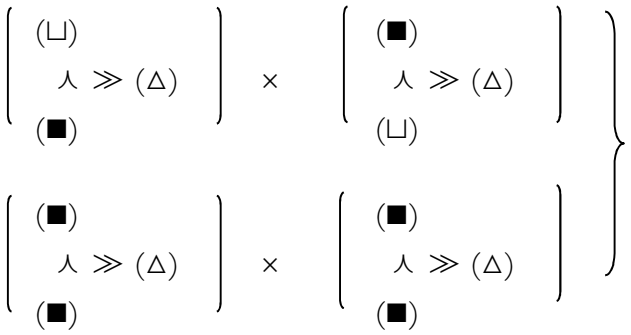


Input: I = sS

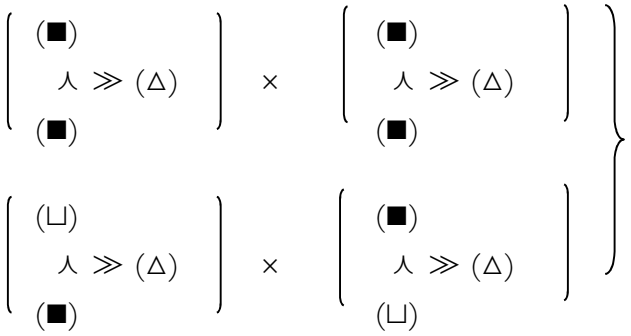
Objektale Automaten (O = oO)



Input: Q = sO

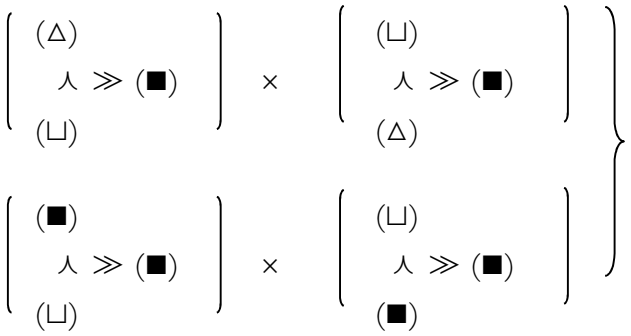


Input: M = oS

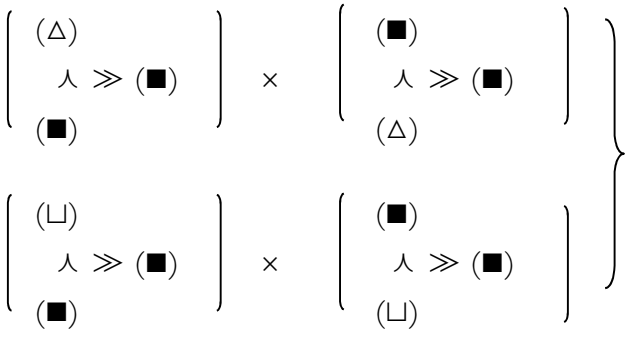


Input: I = sS

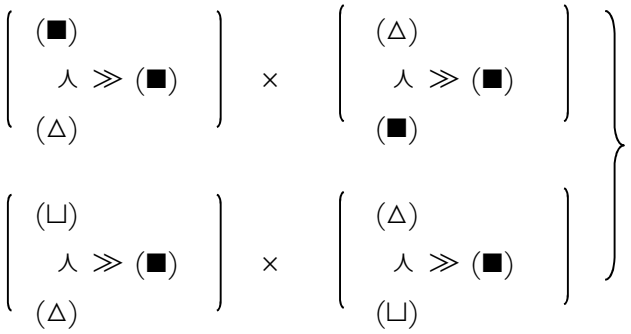
Interpretative Automaten (I = sS)



Input: Q = sO



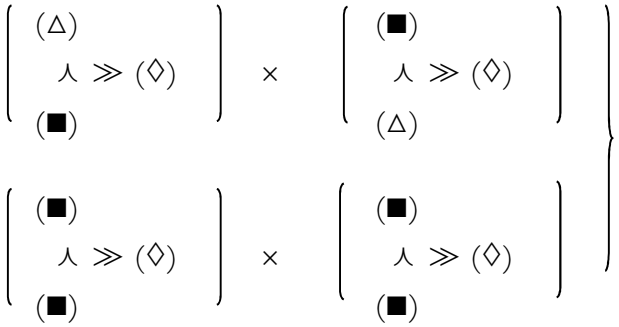
Input: M = oS



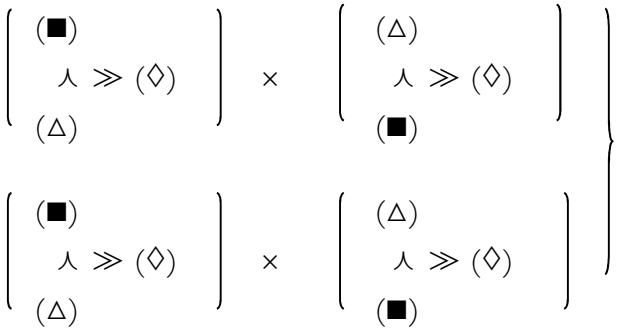
Input: O = oO

12. Präsemiotisches Dualsystem (■ △ ■ ◊) × (◊ ■ △ ■)

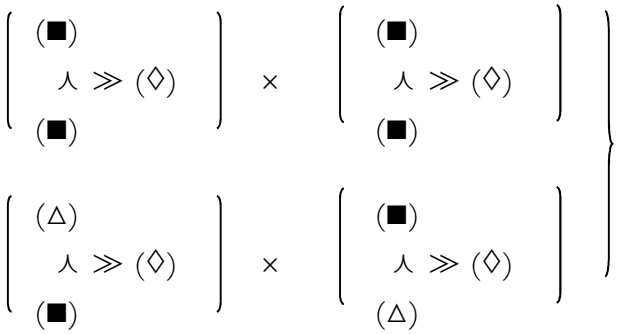
Qualitative Automaten (Q = sO)



Input: M = oS

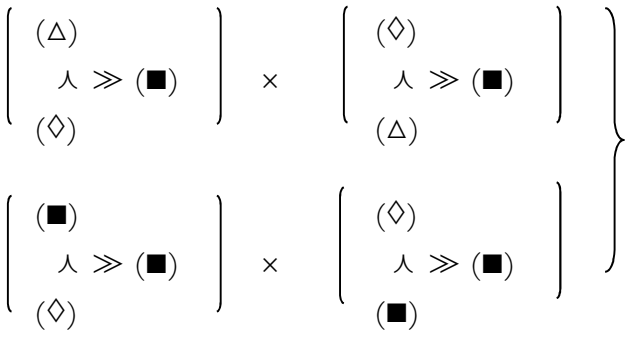


Input: O = oO

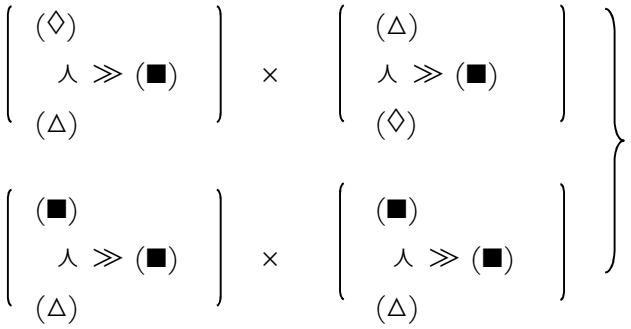


Input: I = sS

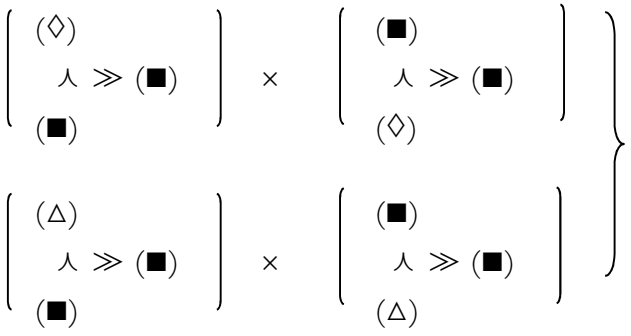
Mediale Automaten (M = oS)



Input: Q = sO

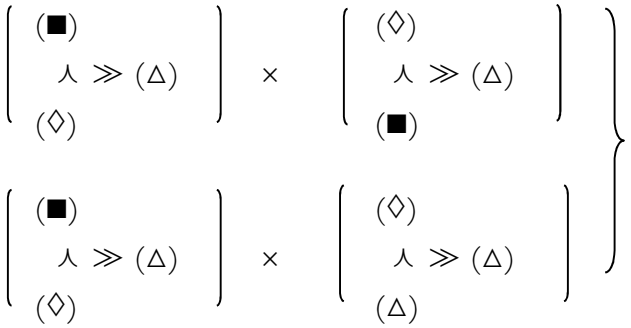


Input: O = oO

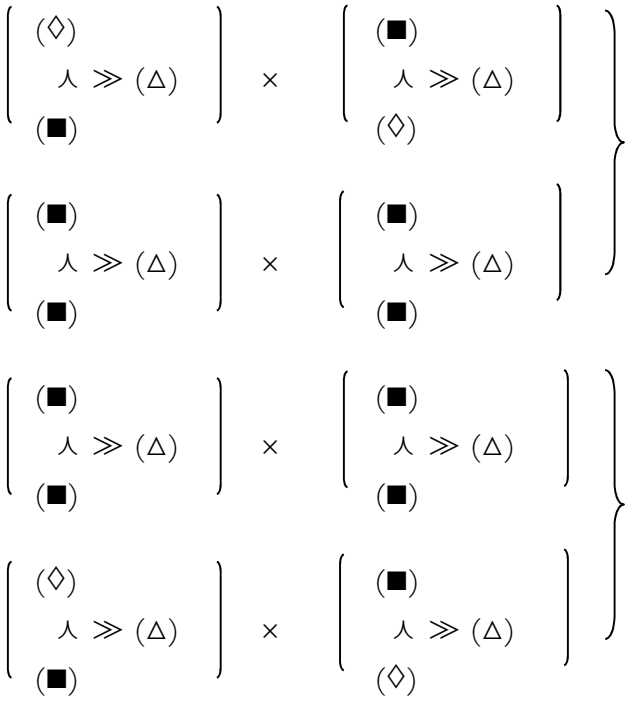


Input: I = sS

Objektale Automaten (O = oO)



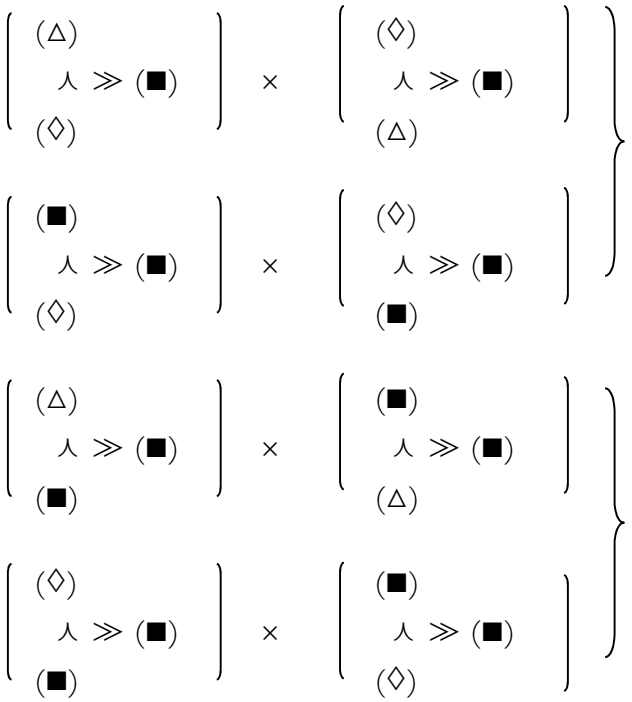
Input: Q = sO



Input: M = oS

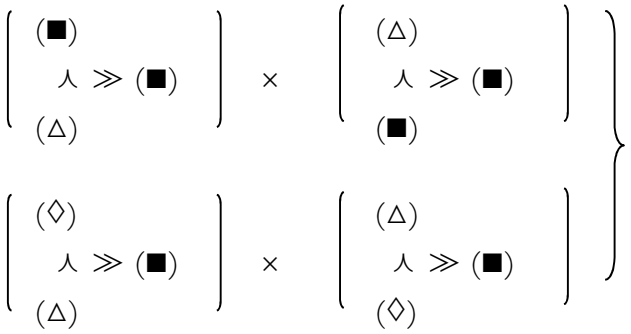
Input: I = sS

Interpretative Automaten (I = sS)



Input: Q = sO

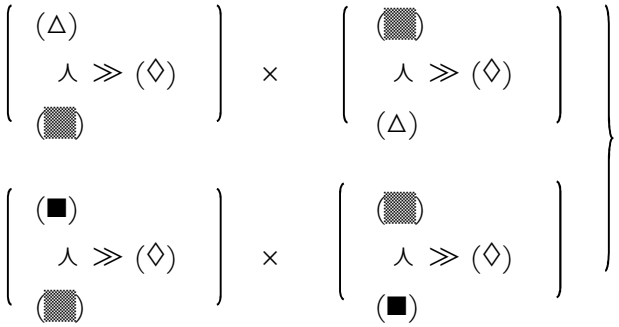
Input: M = oS



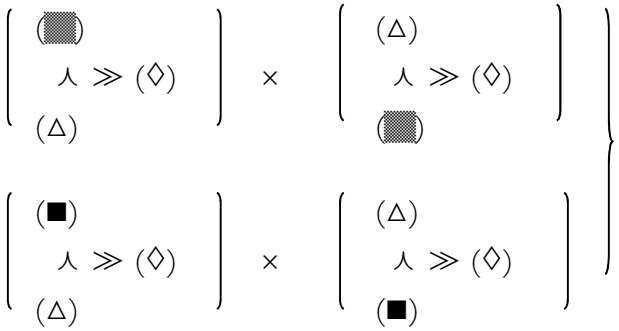
Input: O = oO

13. Präsemiotisches Dualsystem (■ △ ▒ ◊) × (◊ ▒ △ ■)

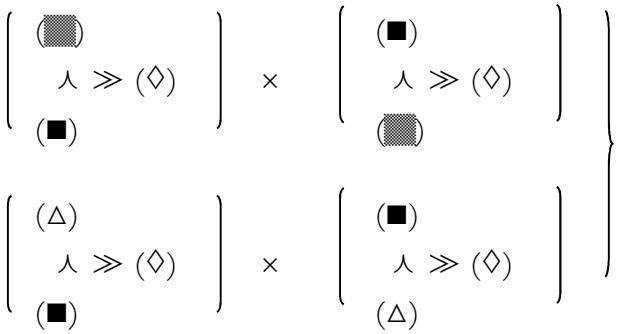
Qualitative Automaten (Q = sO)



Input: M = oS

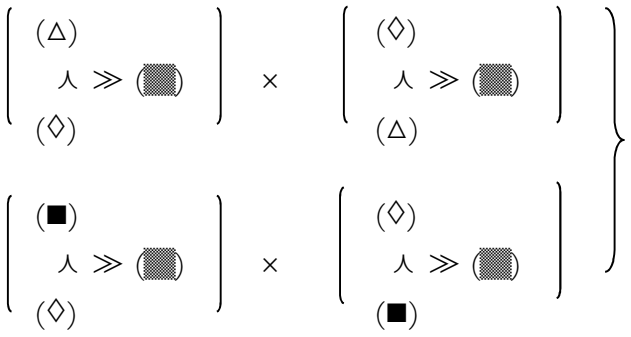


Input: O = oO

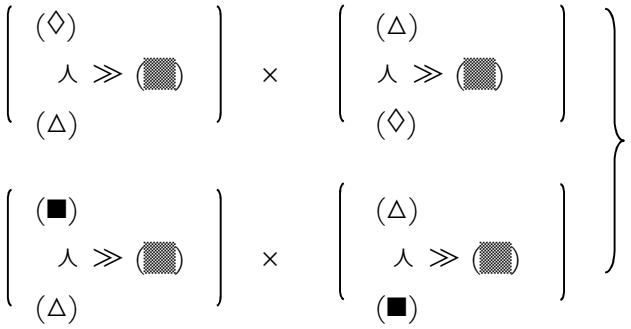


Input: I = sS

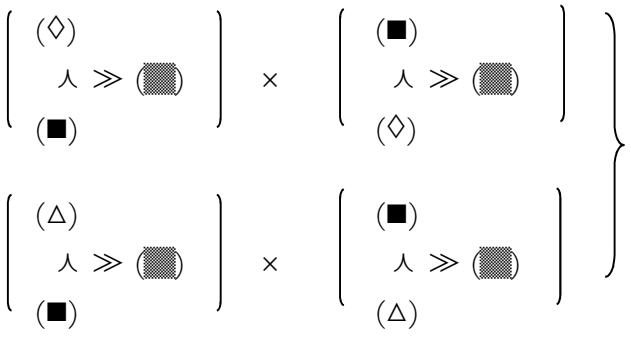
Mediale Automaten (M = oS)



Input: Q = sO

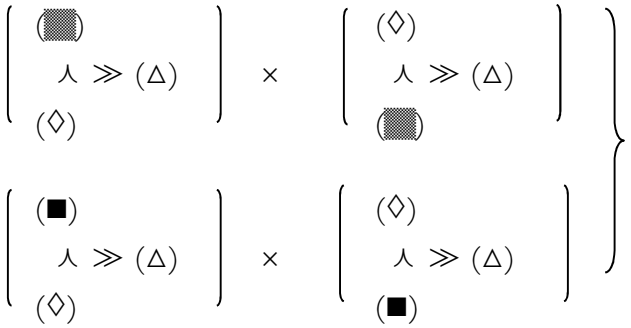


Input: O = oO

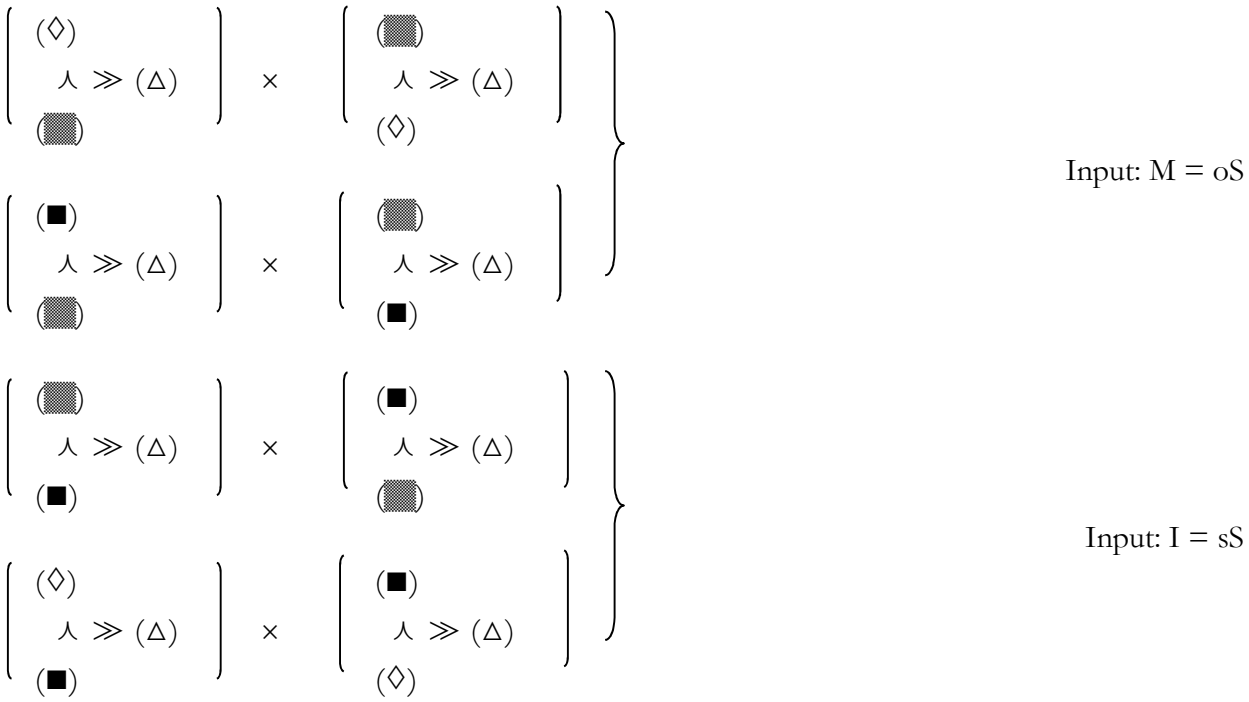


Input: I = sS

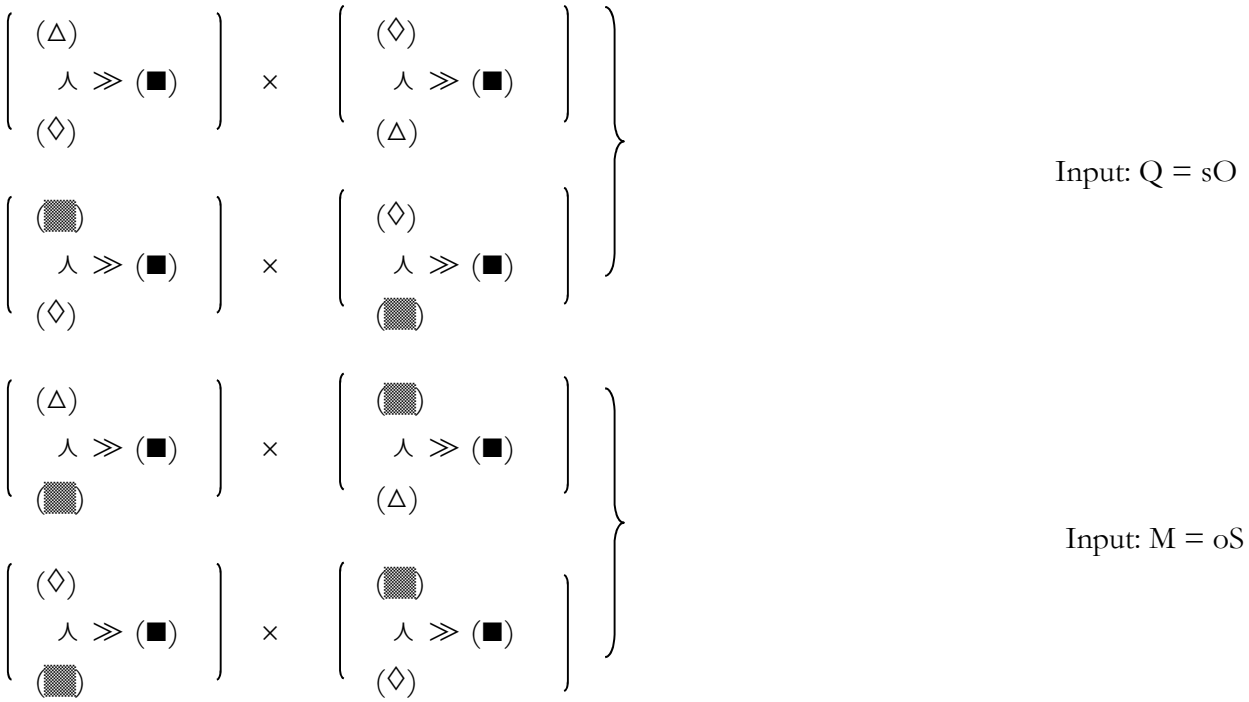
Objektale Automaten (O = oO)

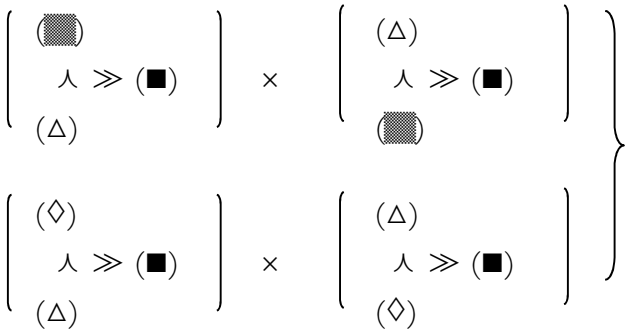


Input: Q = sO



Interpretative Automaten (I = sS)

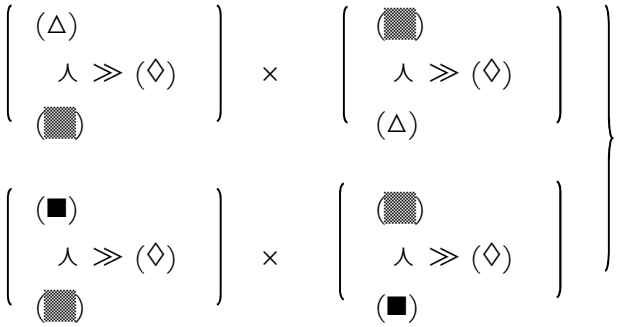




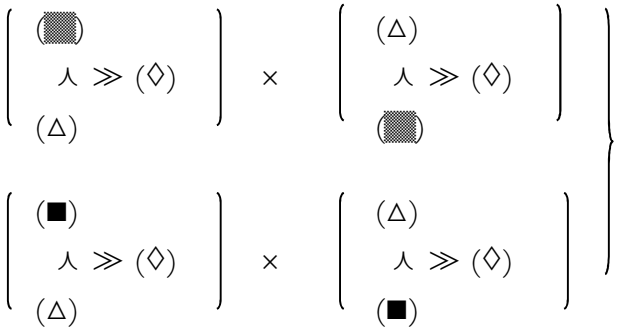
Input: O = oO

14. Präsemiotisches Dualsystem (■ △ ▩ ◊) × (◊ ▩ △ ■)

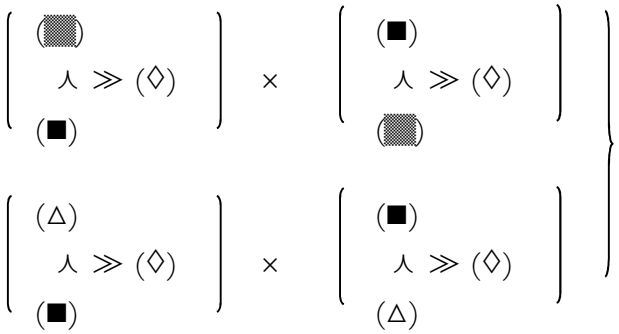
Qualitative Automaten (Q = sO)



Input: M = oS

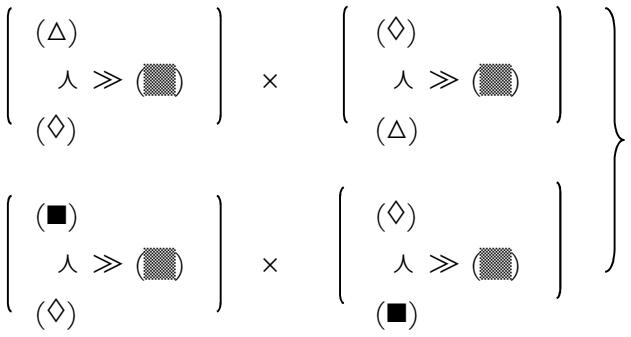


Input: O = oO

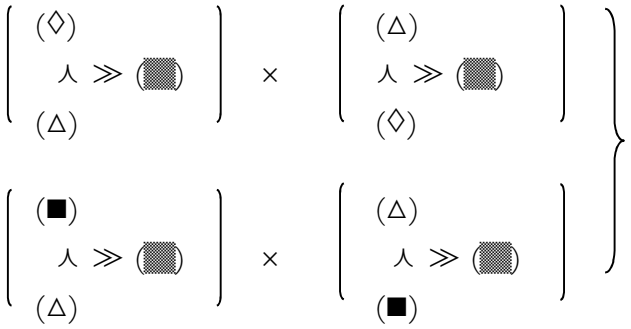


Input: I = sS

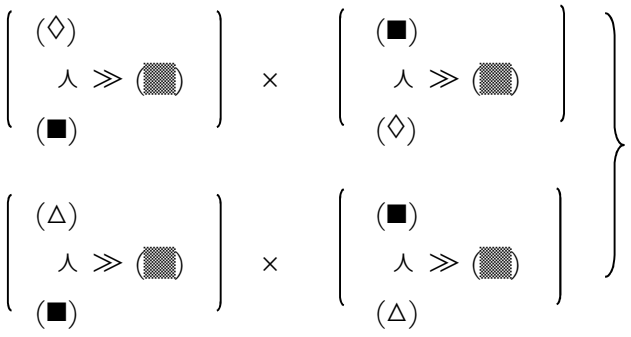
Mediale Automaten (M = oS)



Input: Q = sO

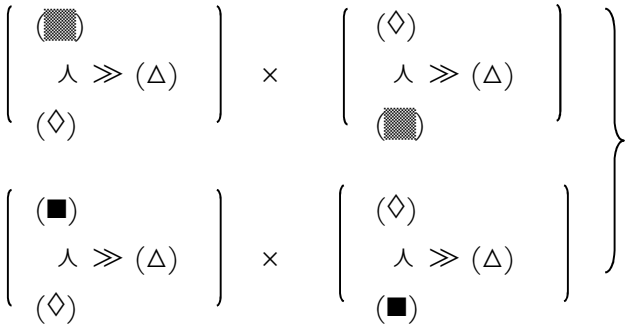


Input: O = oO

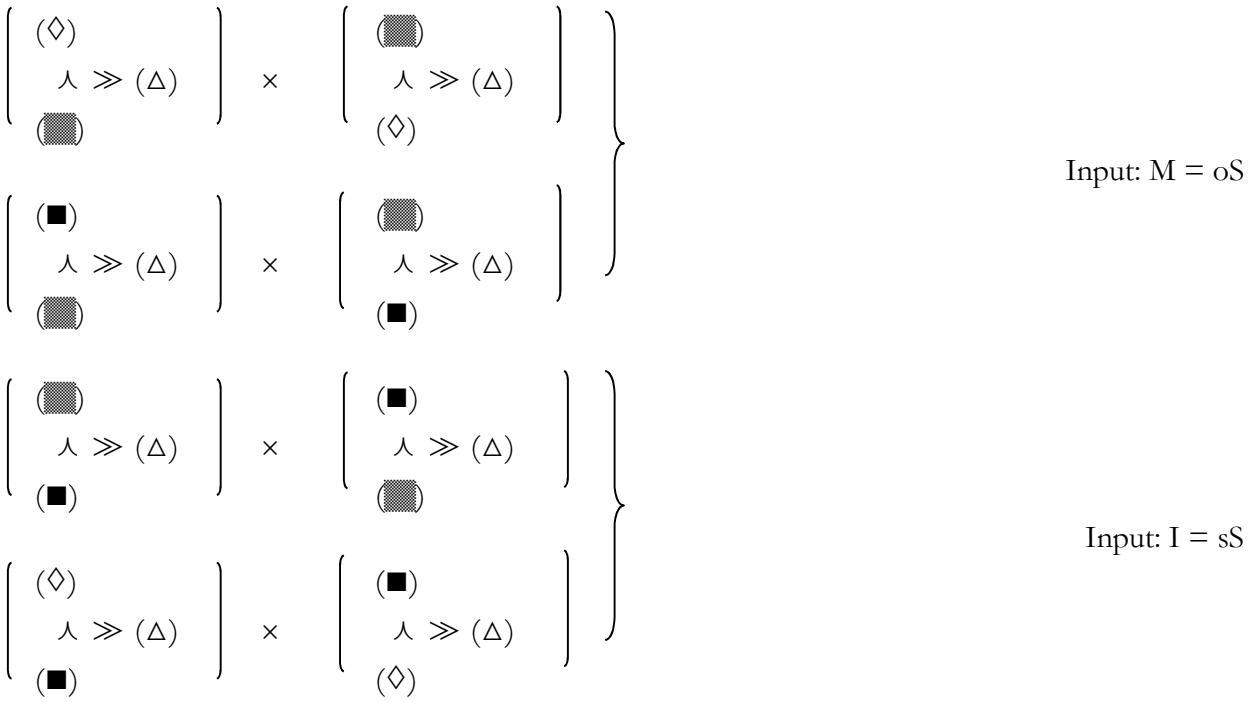


Input: I = sS

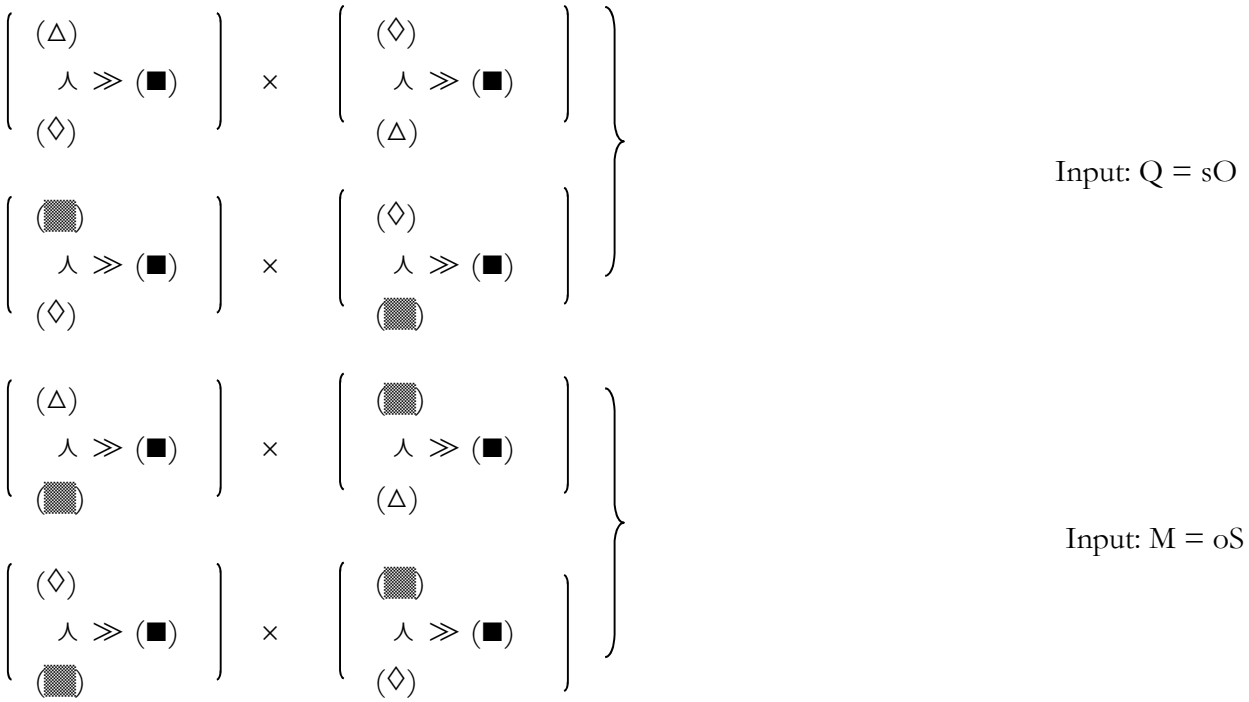
Objektale Automaten (O = oO)

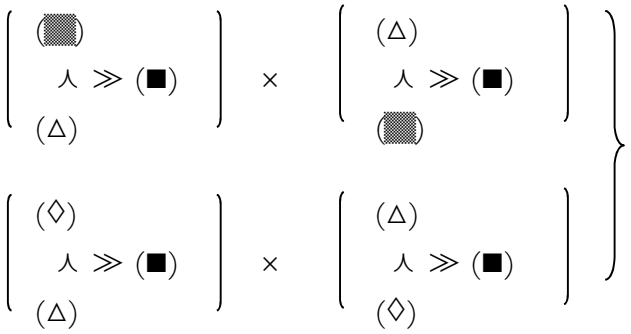


Input: Q = sO



Interpretative Automaten (I = sS)

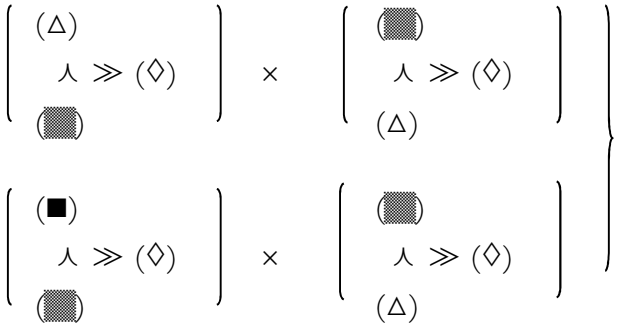




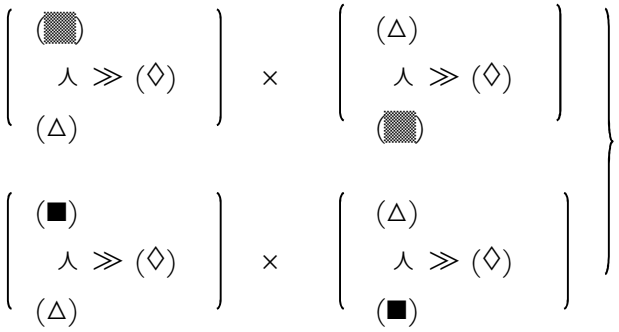
Input: O = oO

15. Präsemiotisches Dualsystem (■ △ ▒ ◊) × (◊ ▒ △ ■)

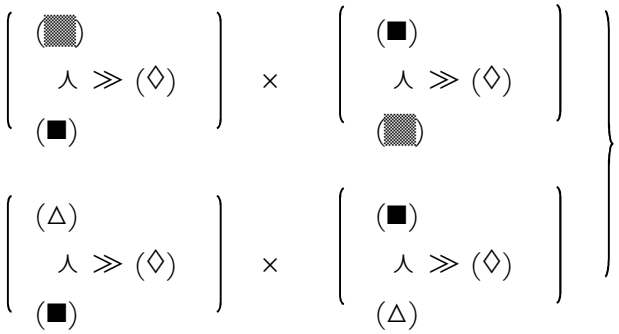
Qualitative Automaten (Q = sO)



Input: M = oS

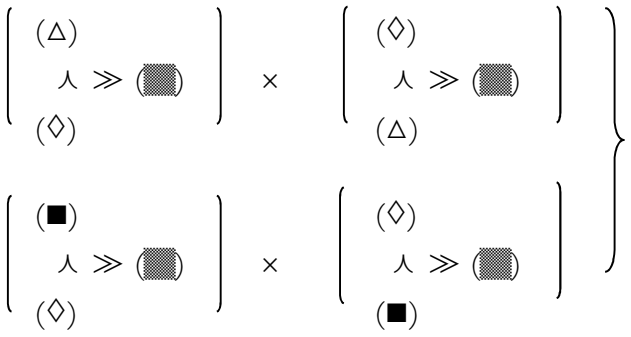


Input: O = oO

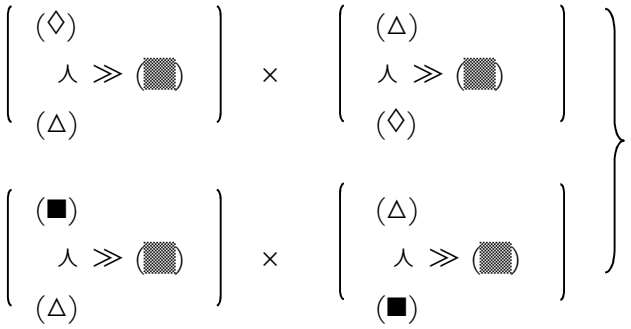


Input: I = sS

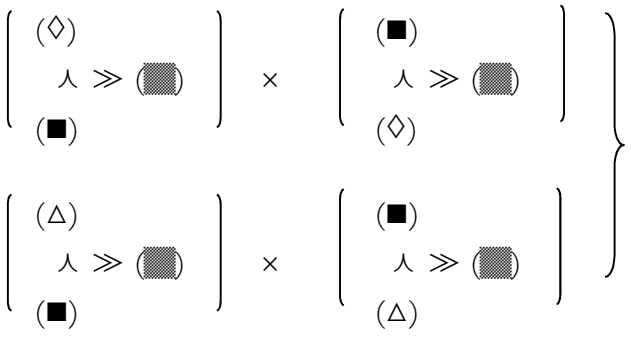
Mediale Automaten (M = oS)



Input: Q = sO

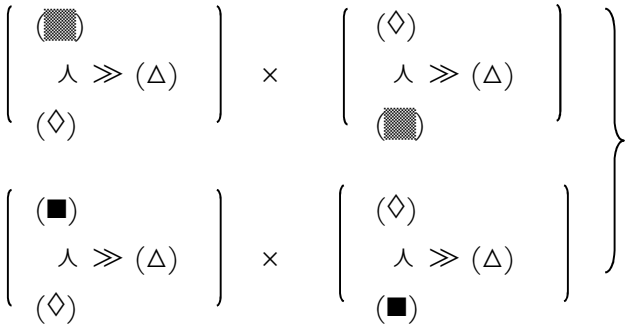


Input: O = oO

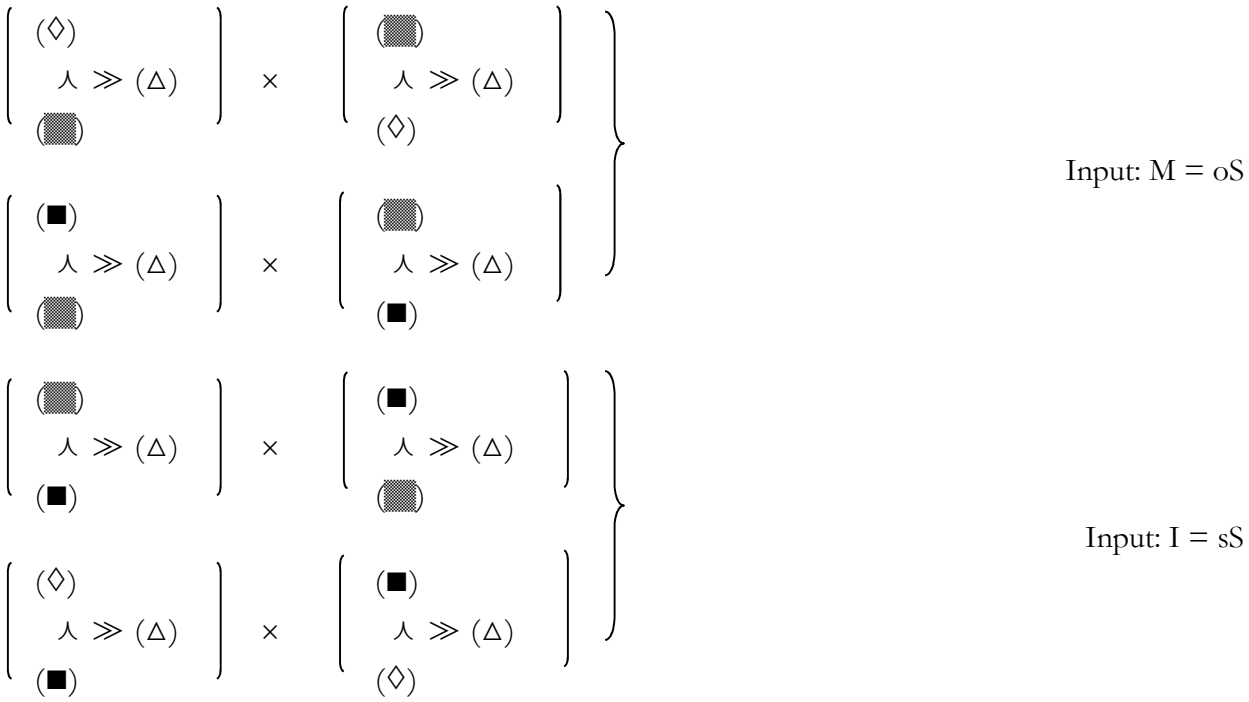


Input: I = sS

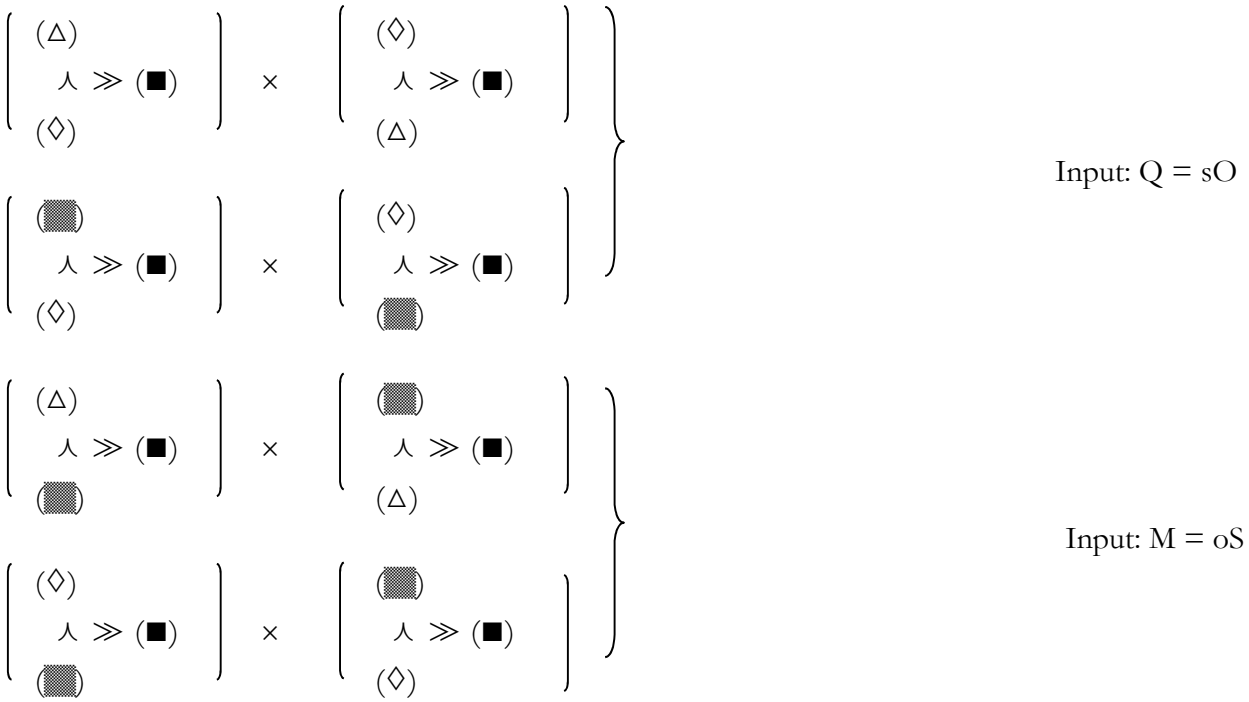
Objektale Automaten (O = oO)

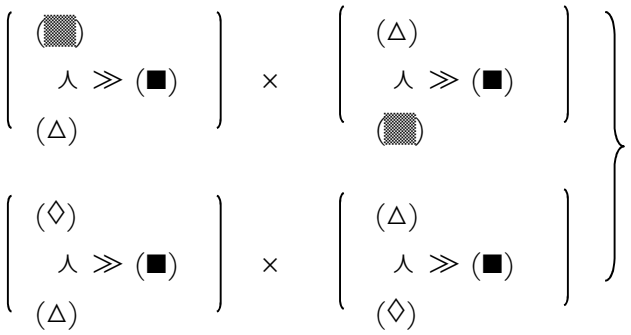


Input: Q = sO



Interpretative Automaten (I = sS)



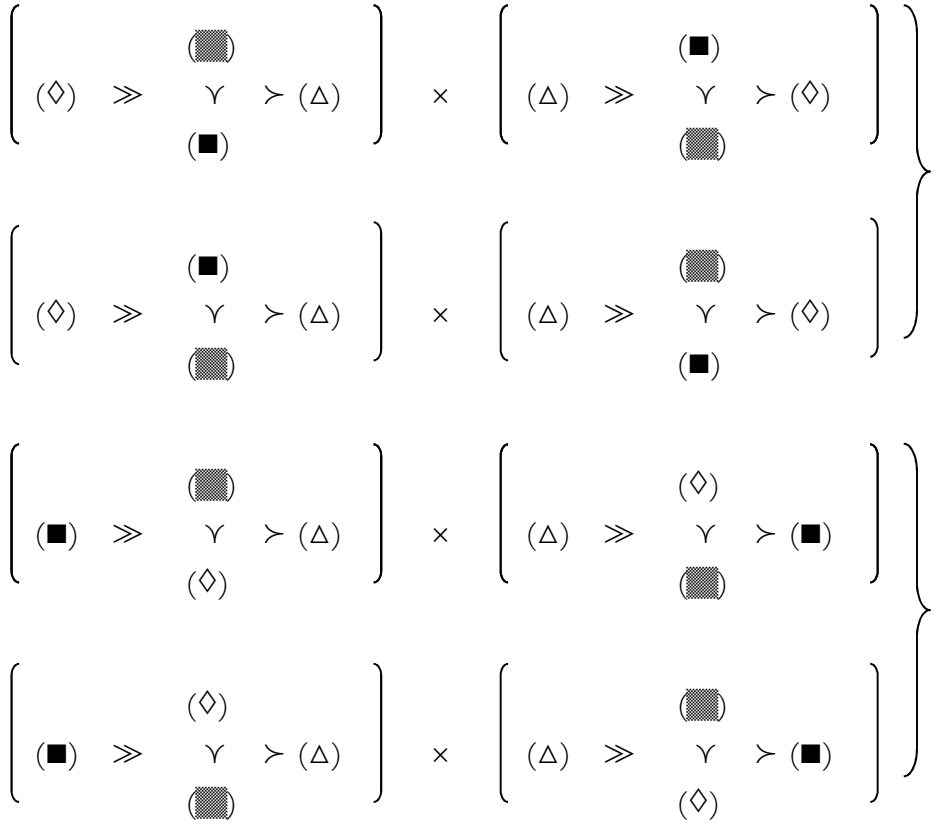


Input: O = oO

II. Automaten der 2 · 24 tetradischen semiotischen Partialrelationen

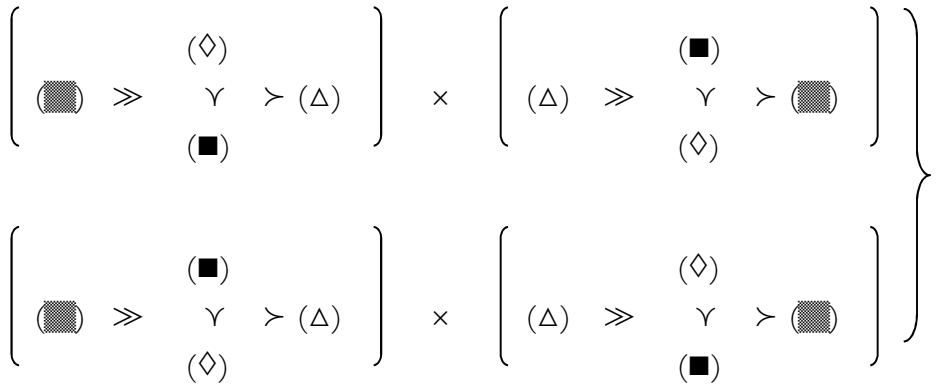
1. Präsemiotisches Dualsystem (▒ ■ ◊ △) × (△ ◊ ■ ▒)

Qualitative Automaten (Q = sO)



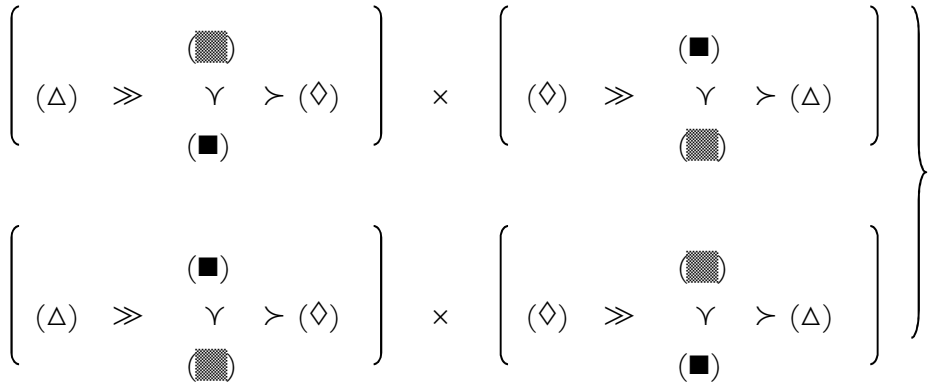
Regulativ:
M = oS

Regulativ:
O = oO

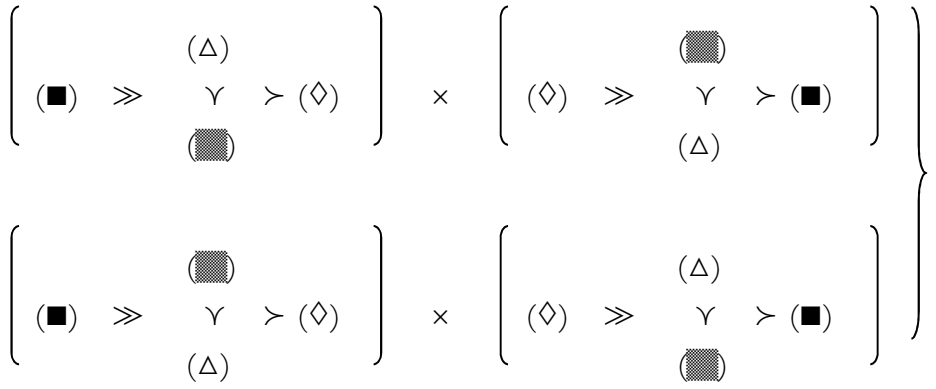


Regulativ:
I = sS

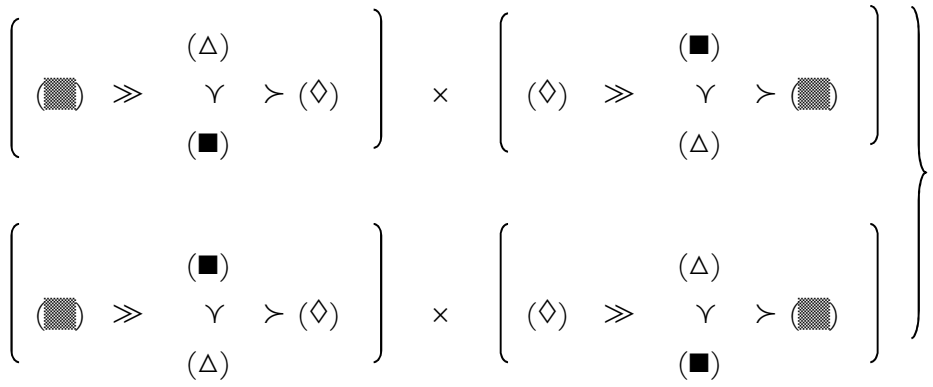
Mediale Automaten (M = oS)



Regulativ:
Q = sO

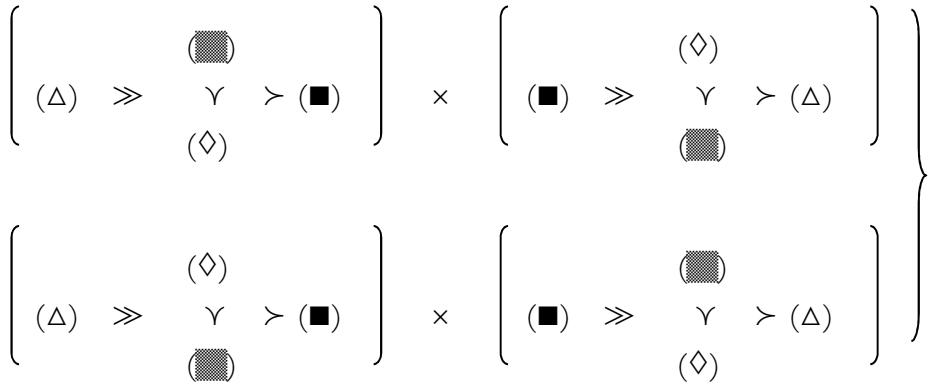


Regulativ:
O = oO

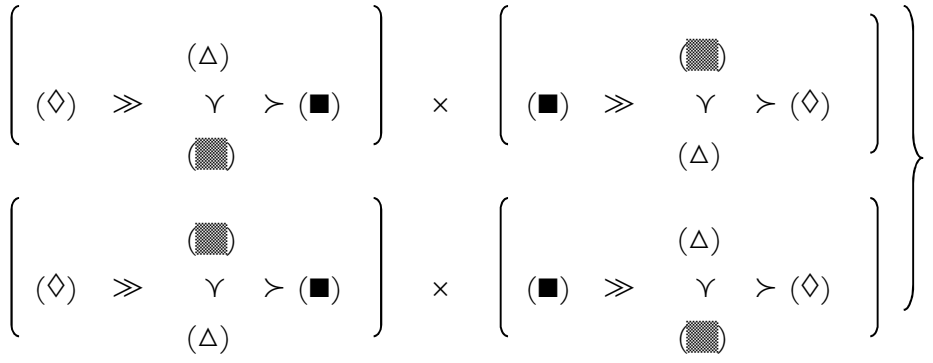


Regulativ:
I = sS

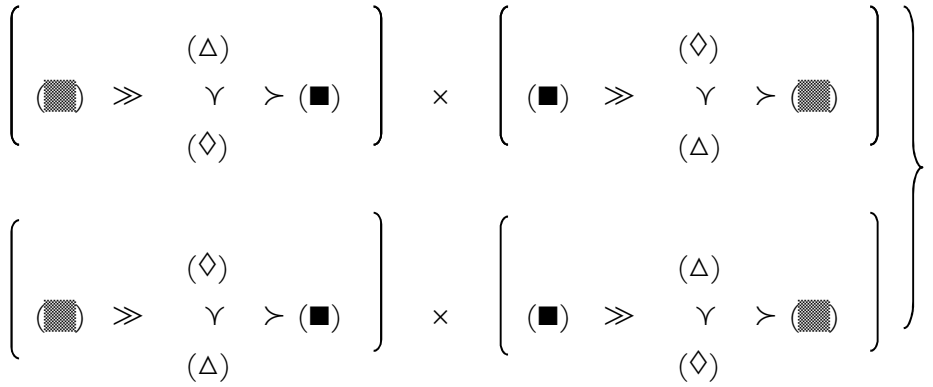
Objektale Automaten (O = oO)



Regulativ:
Q = sO

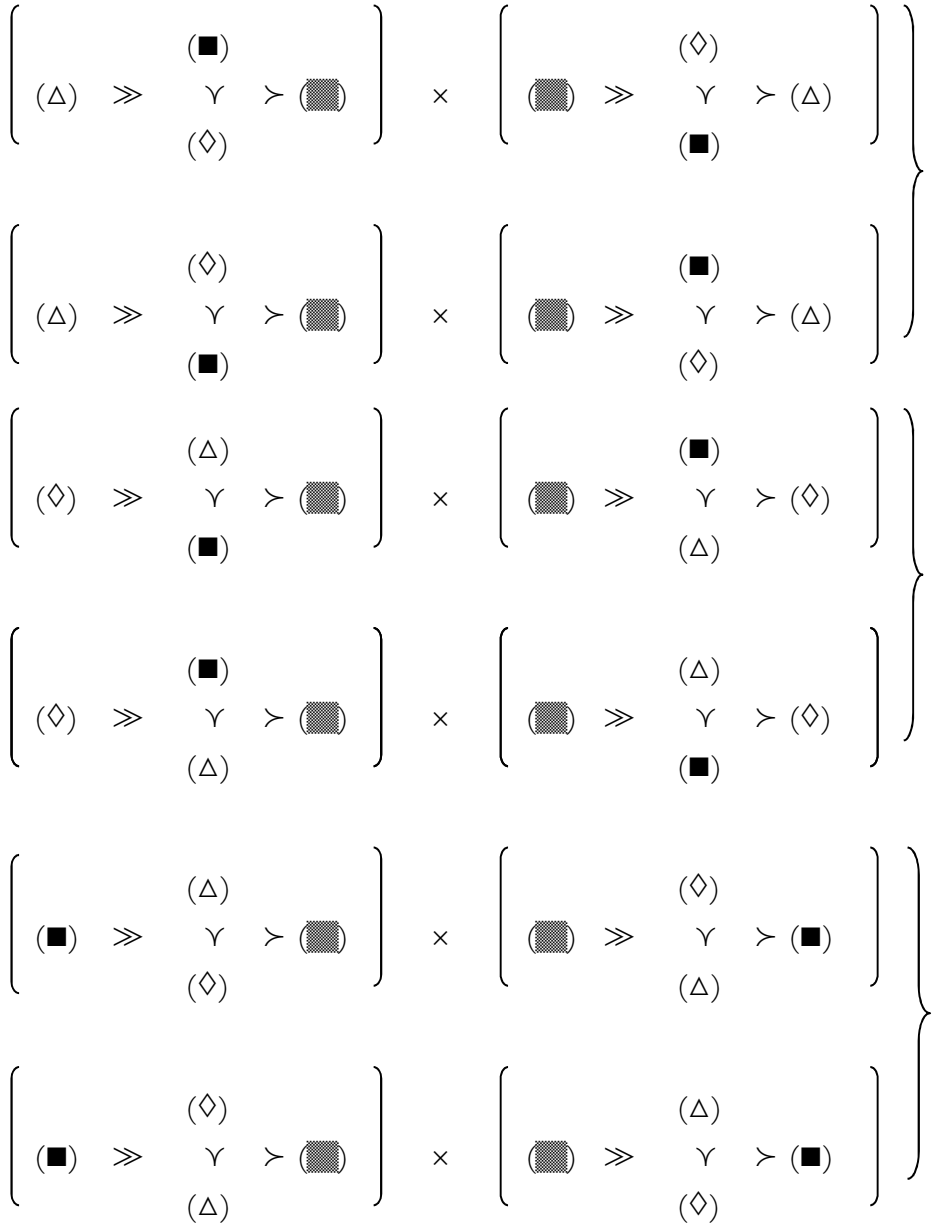


Regulativ:
M = oS



Regulativ:
I = sS

Interpretative Automaten (I = sS)



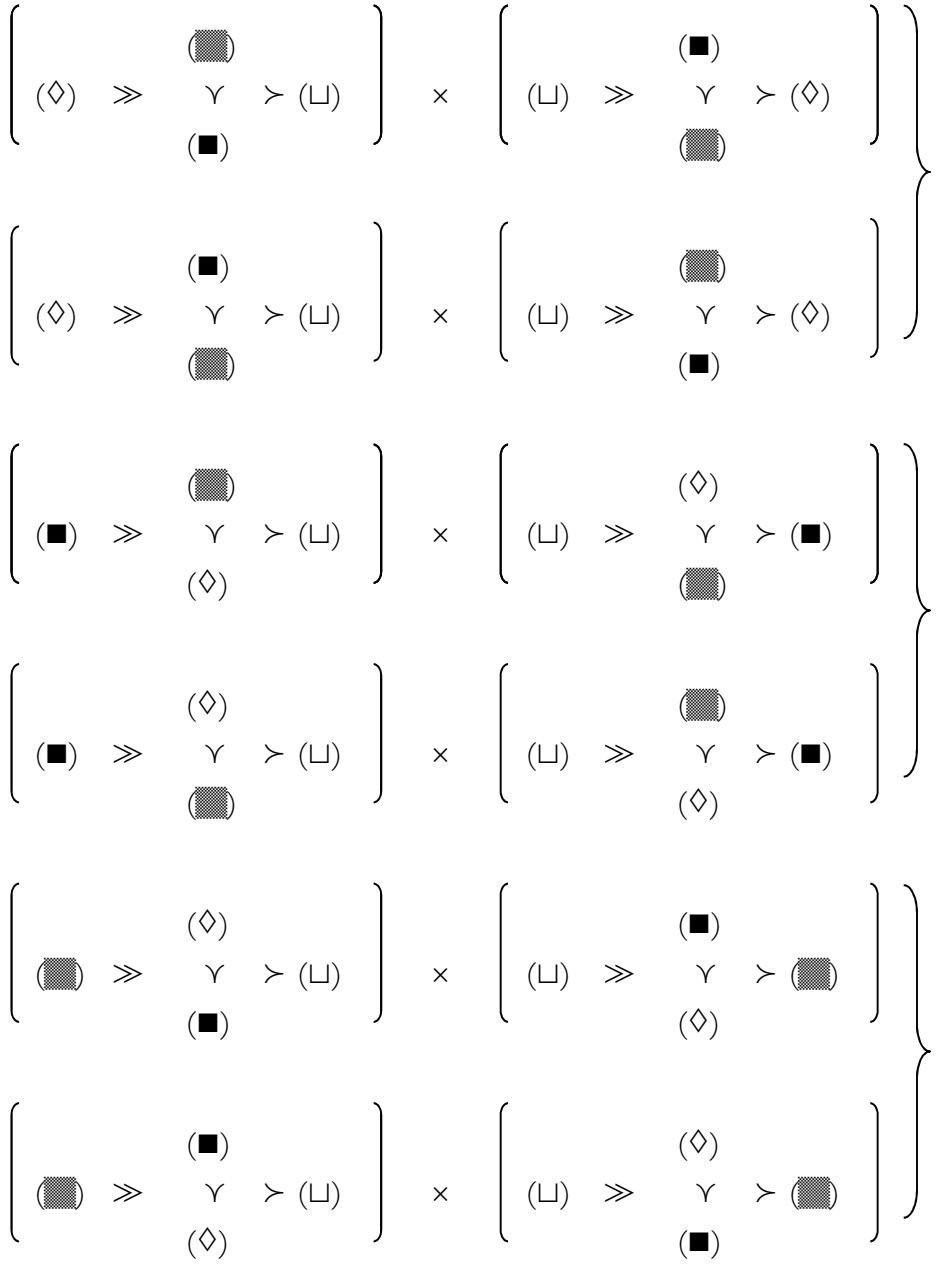
Regulativ:
Q = sO

Regulativ:
M = oS

Regulativ:
O = oO

2. Präsemiotisches Dualsystem (▒ ■ ◊ ⊔) × (⊔ ◊ ■ ▒)

Qualitative Automaten (Q = sO)

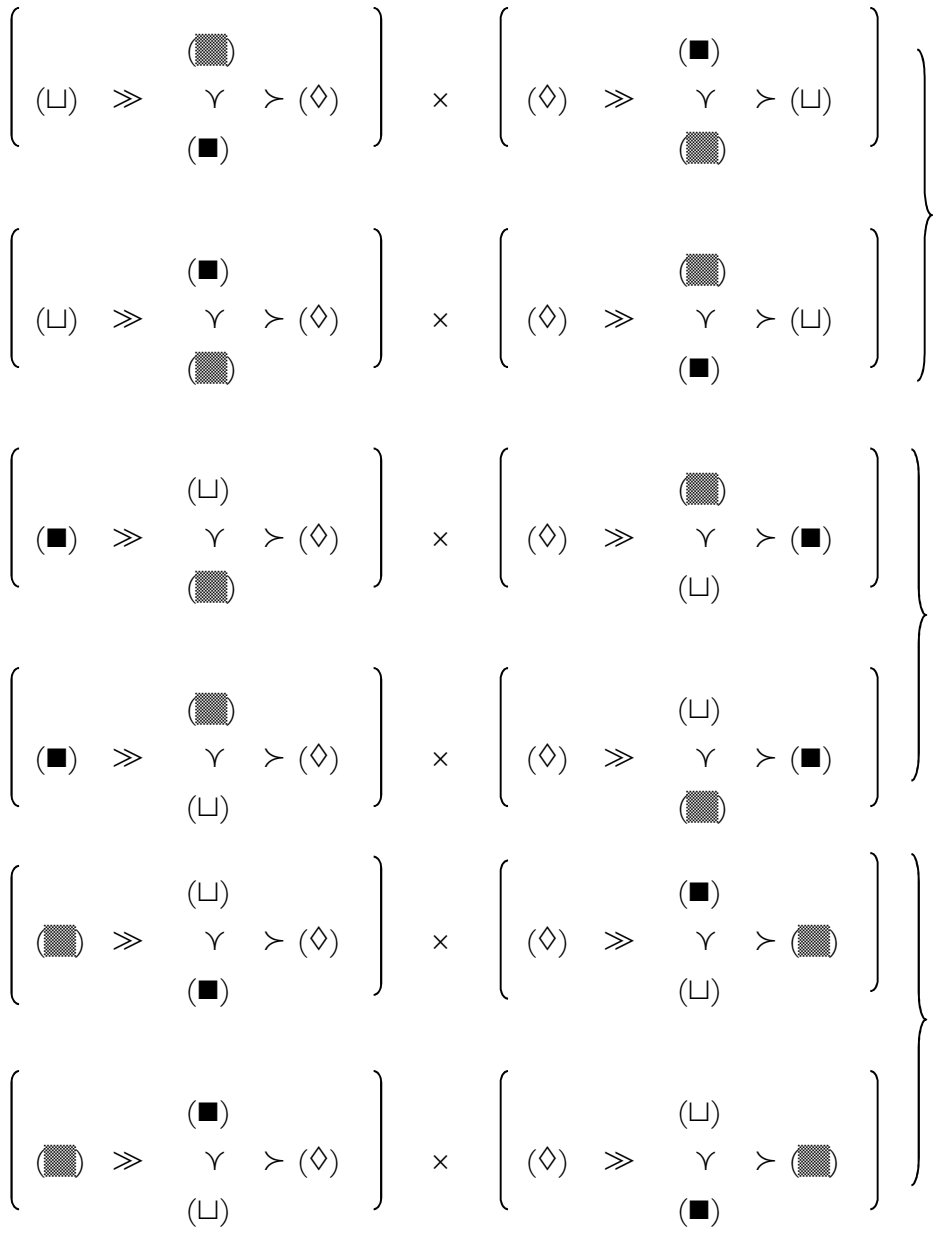


Regulativ:
M = oS

Regulativ:
O = oO

Regulativ:
I = sS

Mediale Automaten (M = oS)

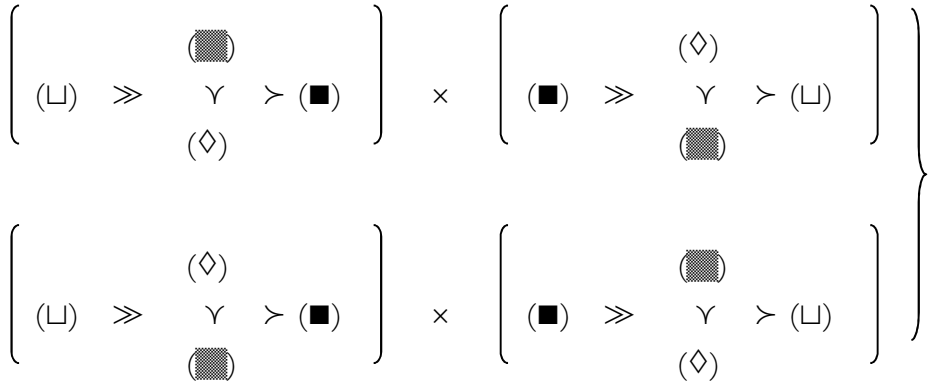


Regulativ:
Q = sO

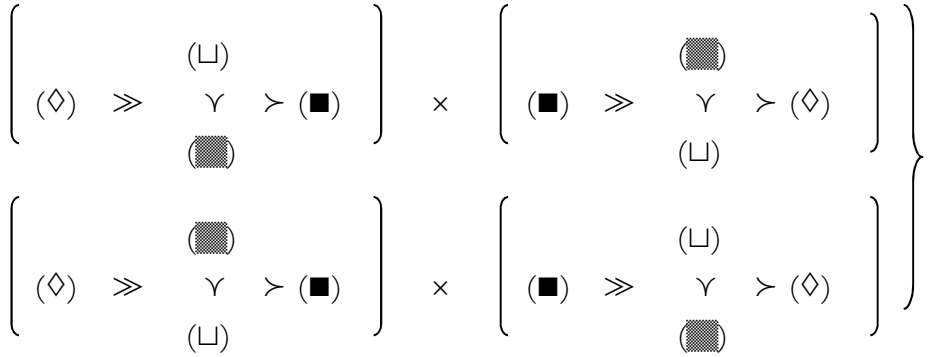
Regulativ:
O = oO

Regulativ:
I = sS

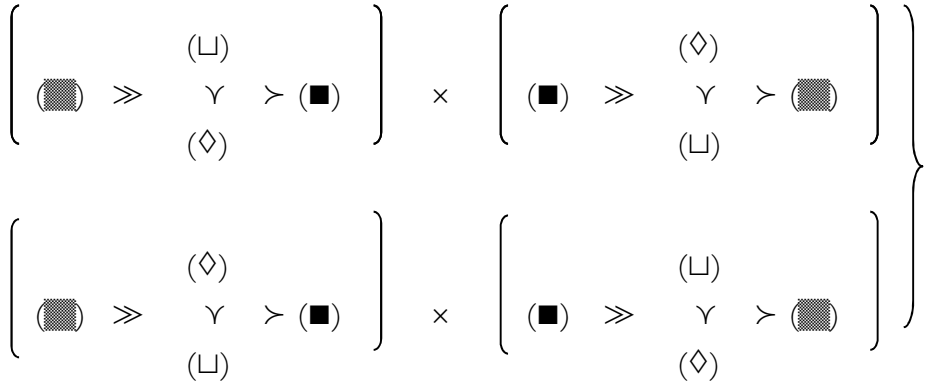
Objektale Automaten (O = oO)



Regulativ:
Q = sO

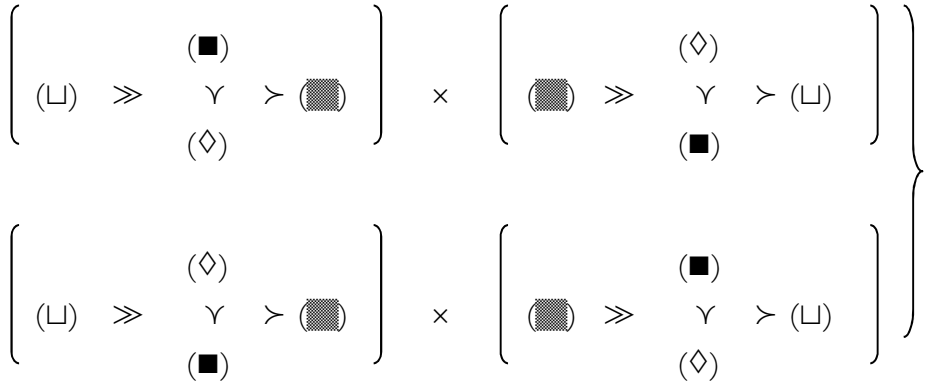


Regulativ:
M = oS

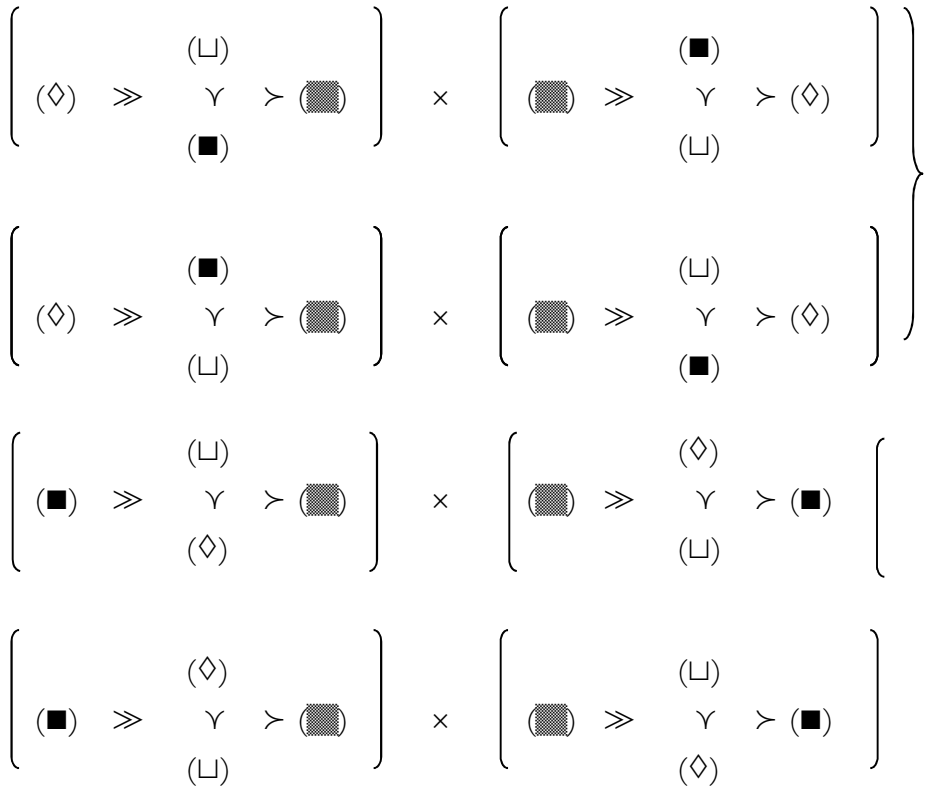


Regulativ:
I = sS

Interpretative Automaten (I = sS)



Regulativ:
Q = sO

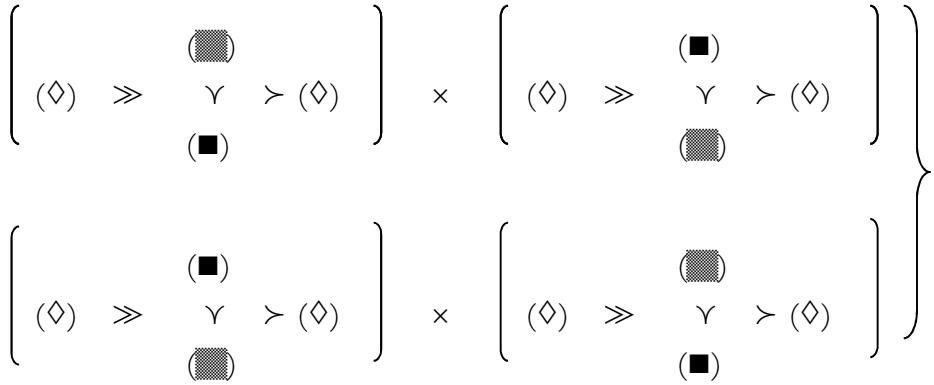


Regulativ:
M = oS

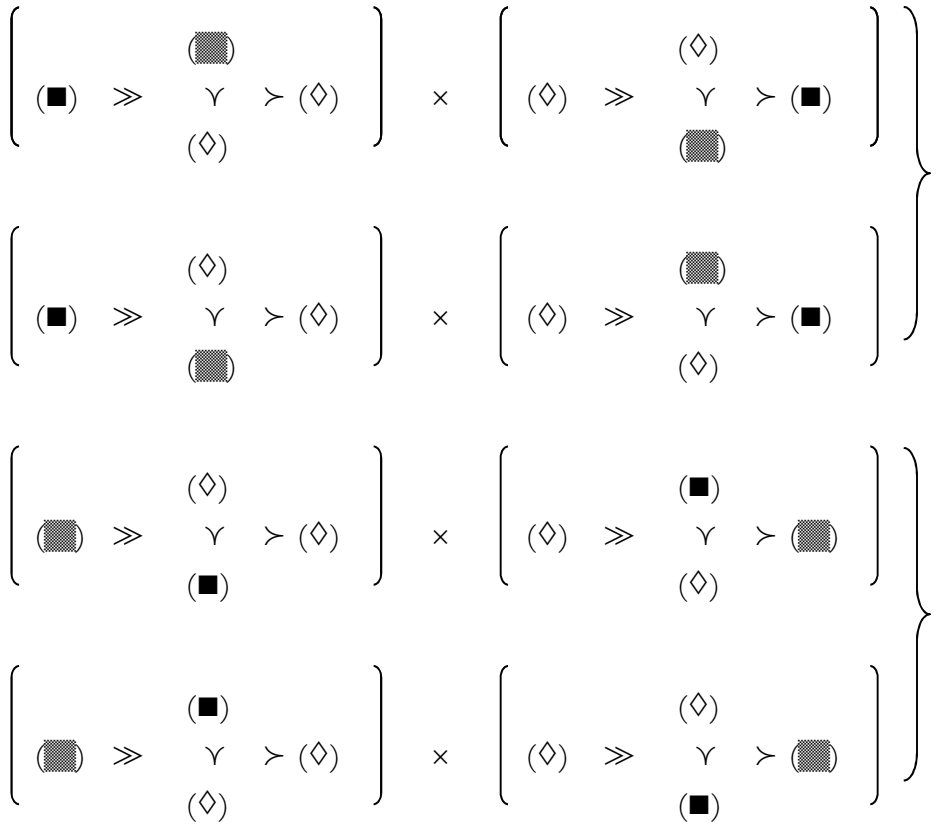
Regulativ:
O = oO

3. Präsemiotisches Dualsystem (▒ ■ ◊ ◊) × (◊ ◊ ■ ▒)

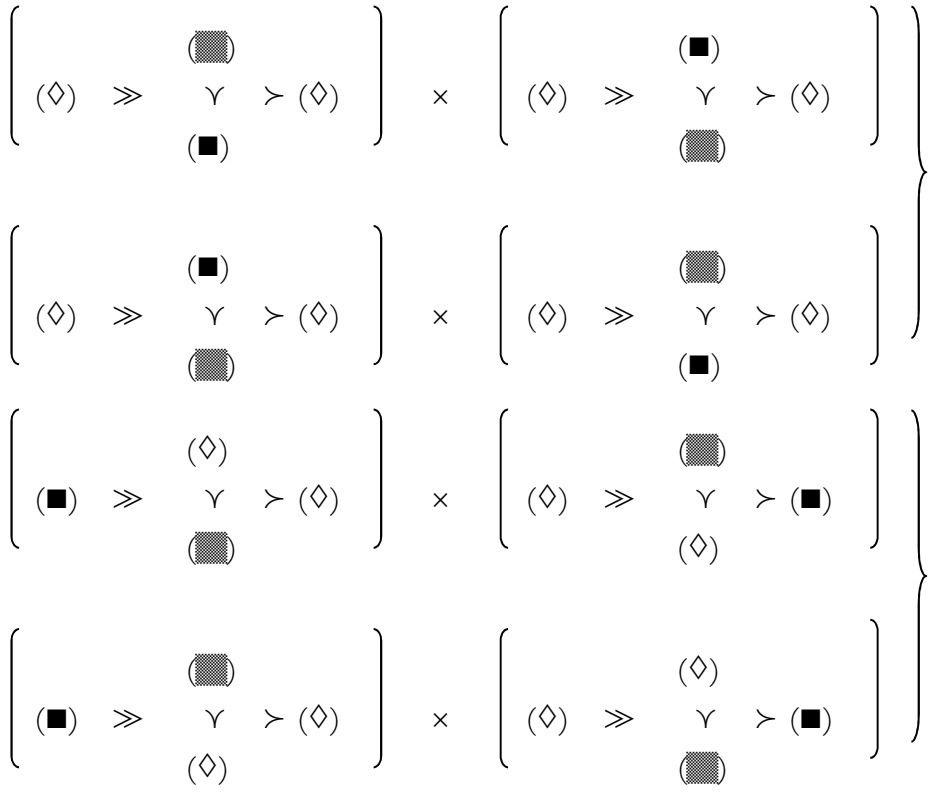
Qualitative Automaten (Q = sO)

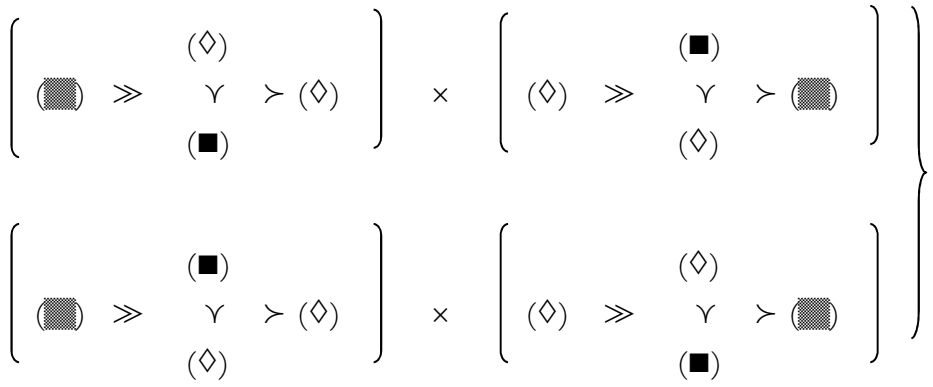


Regulativ:
M = oS



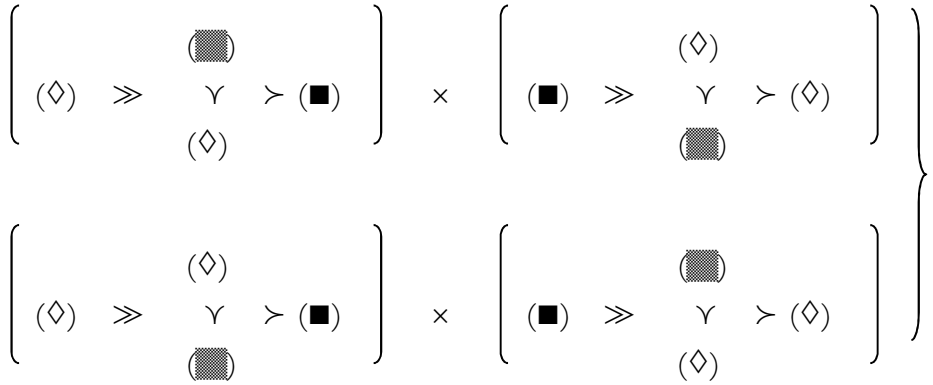
Mediale Automaten (M = oS)



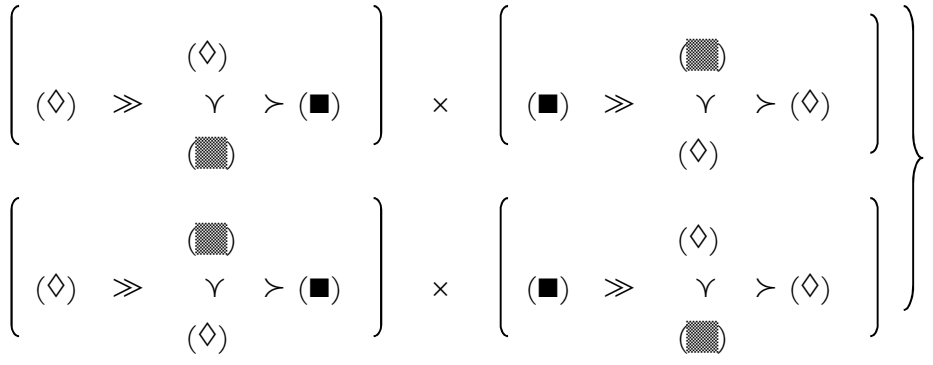


Regulativ:
I = sS

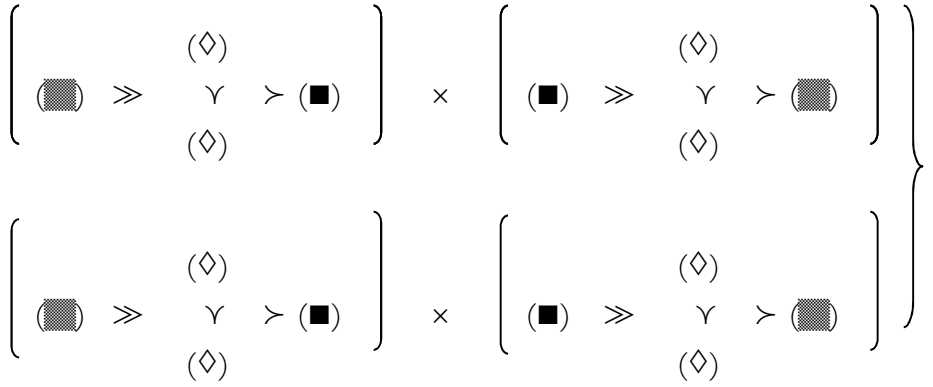
Objektale Automaten (O = oO)



Regulativ:
Q = sO

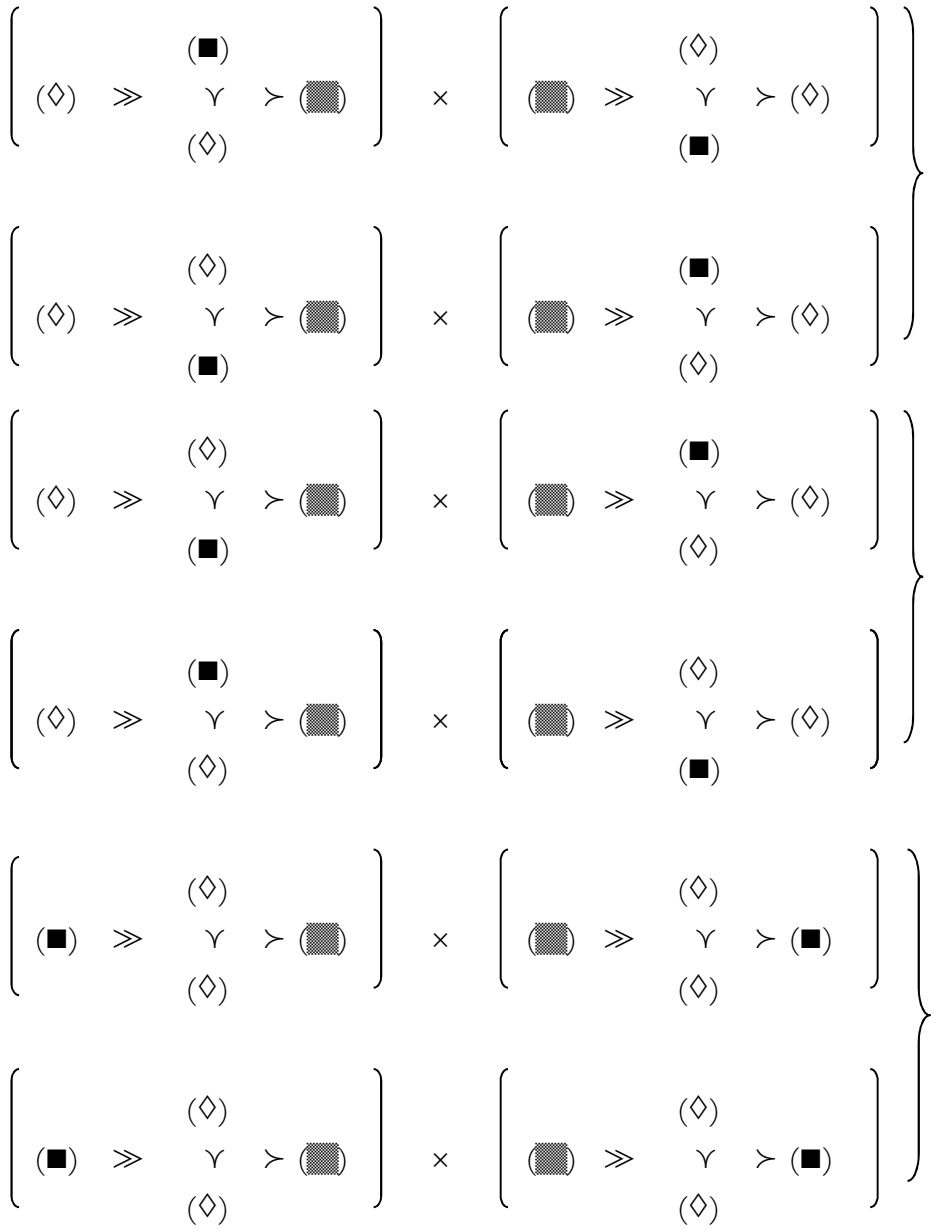


Regulativ:
M = oS



Regulativ:
I = sS

Interpretative Automaten (I = sS)



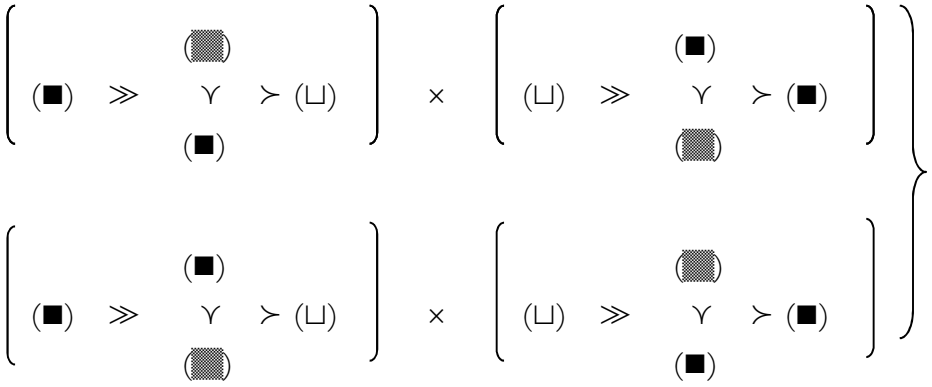
Regulativ:
Q = sO

Regulativ:
M = oS

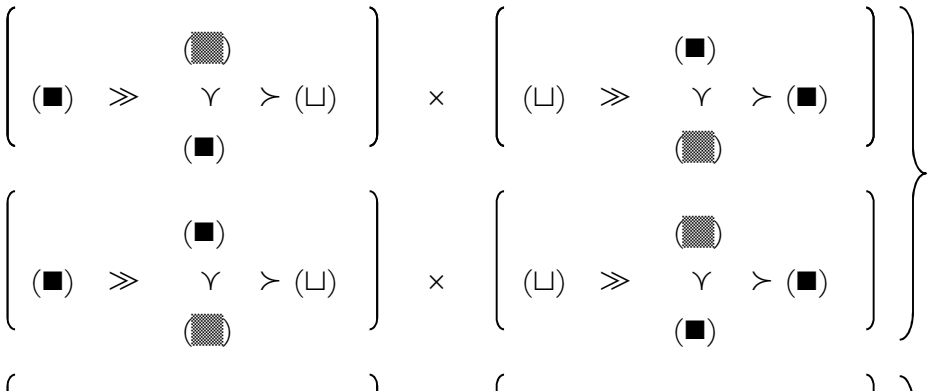
Regulativ:
O = oO

4. Präsemiotisches Dualsystem (▒ ■ ■ ⊔) × (⊔ ■ ■ ▒)

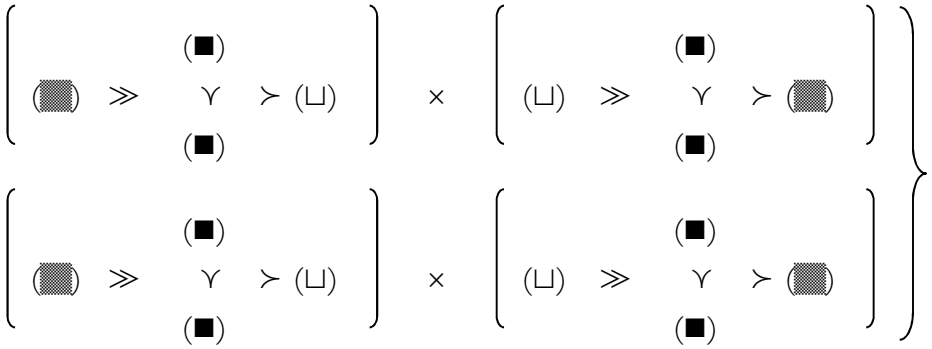
Qualitative Automaten (Q = sO)



Regulativ:
M = oS

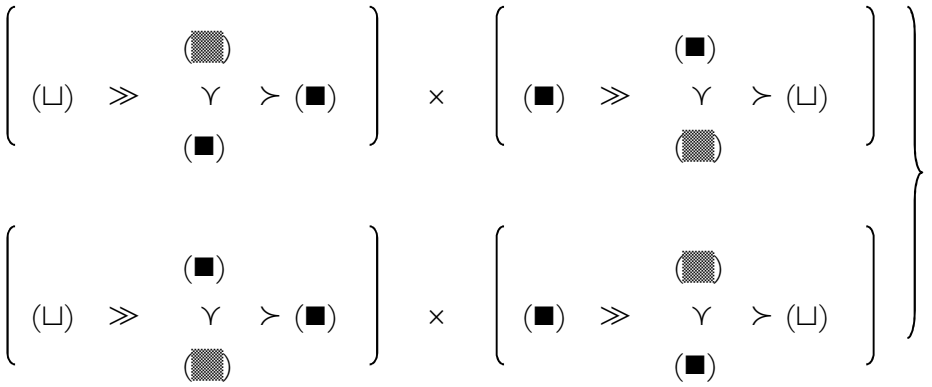


Regulativ:
O = oO

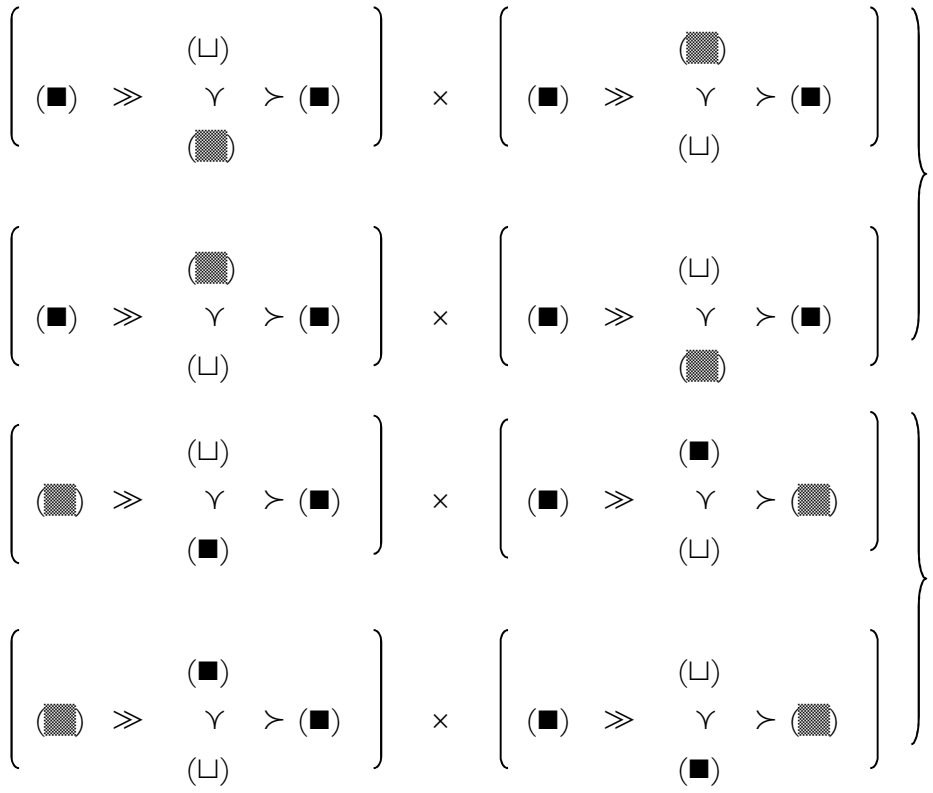


Regulativ:
I = sS

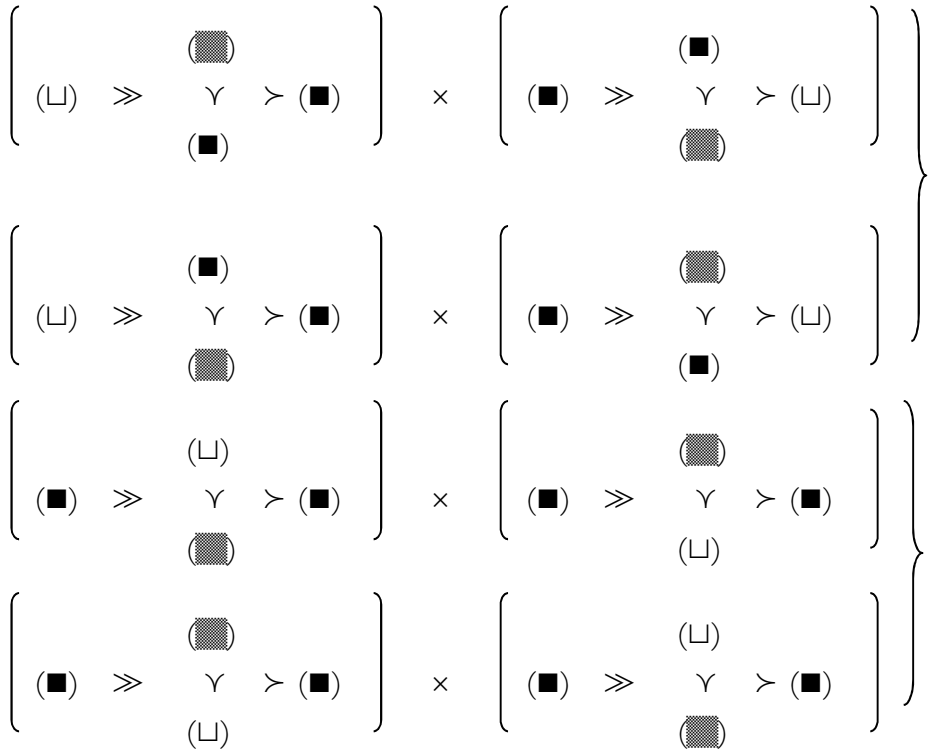
Mediale Automaten (M = oS)

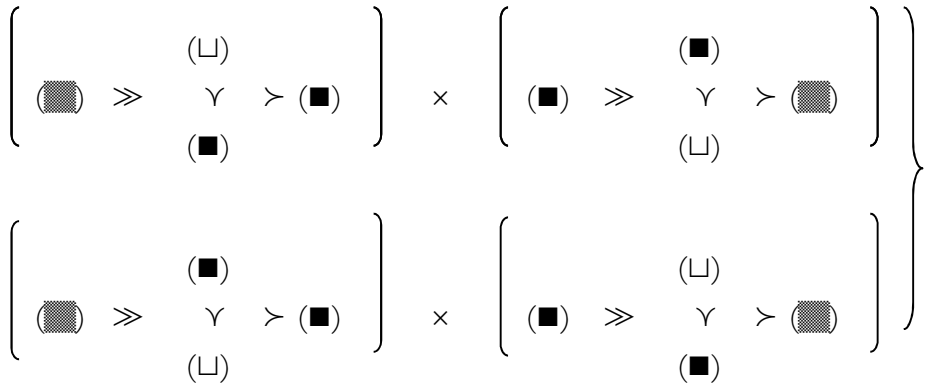


Regulativ:
Q = sO

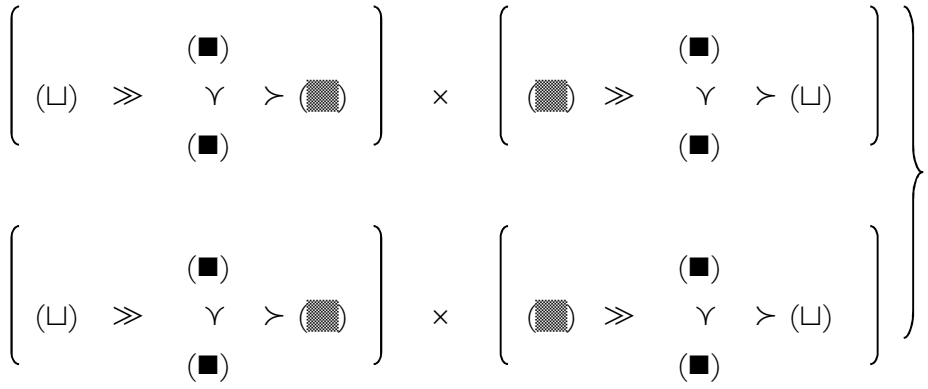


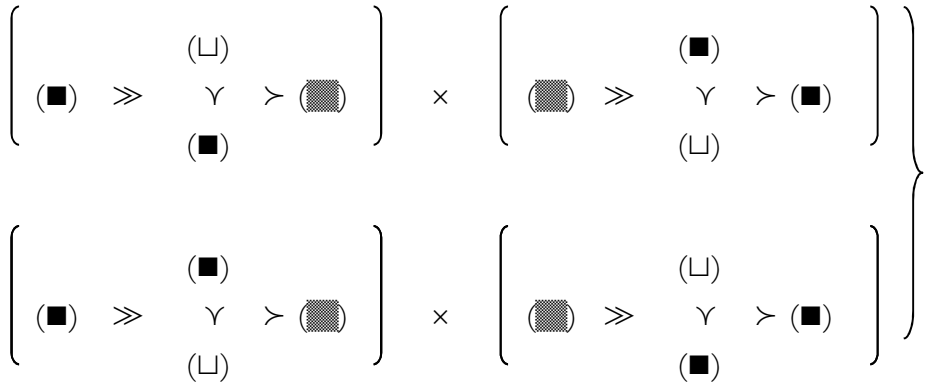
Objektale Automaten (O = oO)

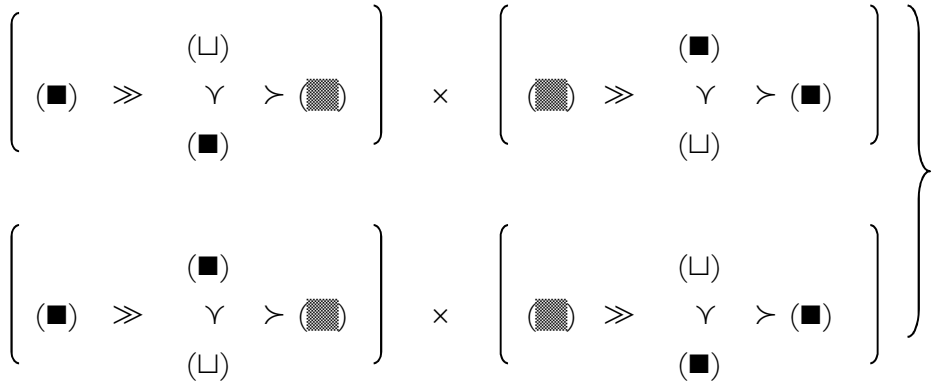




Interpretative Automaten (I = sS)

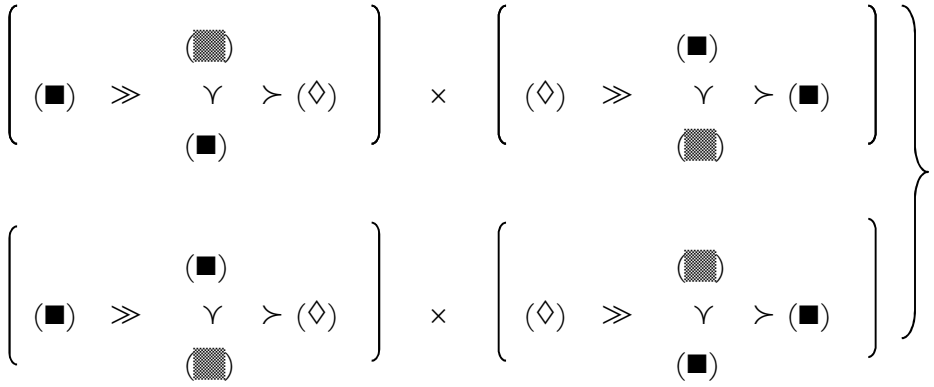




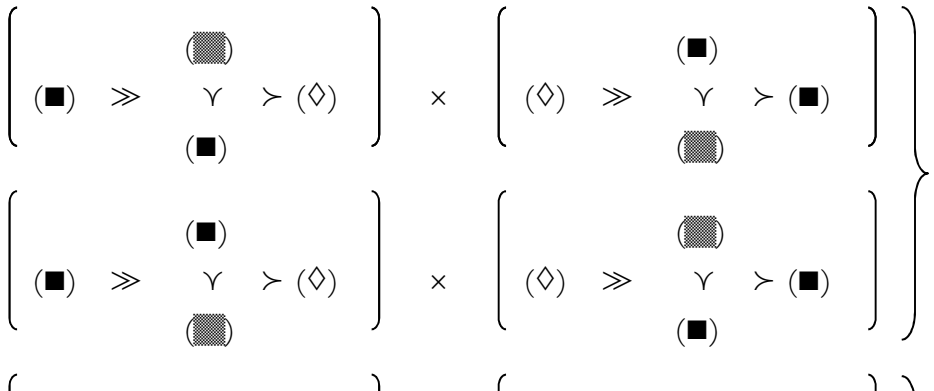


5. Präsemiotisches Dualsystem (▒ ■ ■ ◊) × (◊ ■ ■ ▒)

Qualitative Automaten (Q = sO)

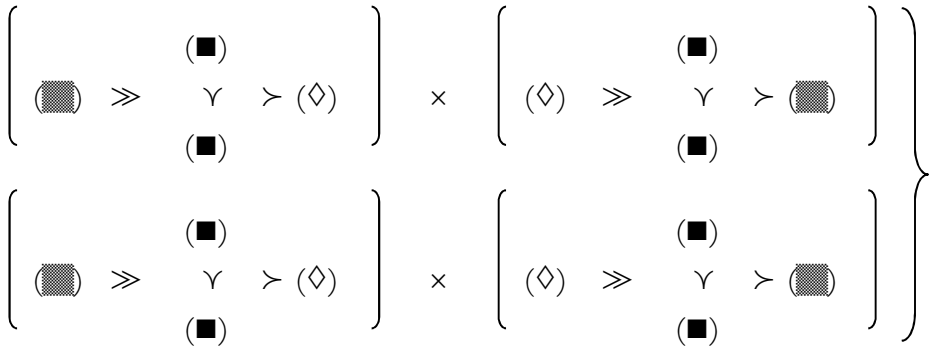


Regulativ:
M = oS

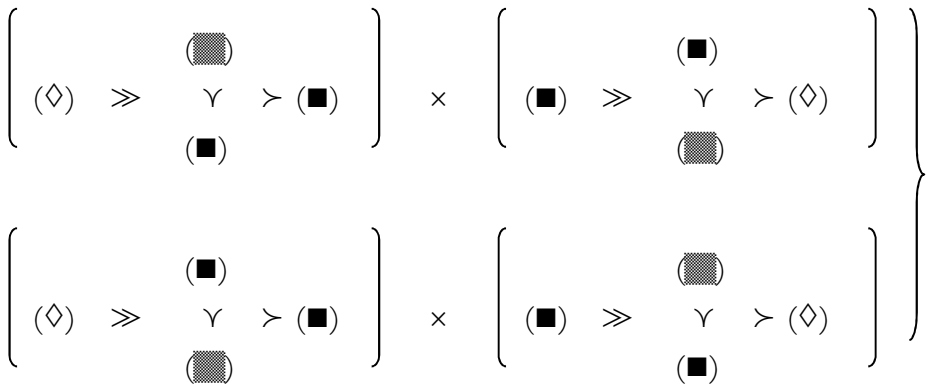


Regulativ:
O = oO

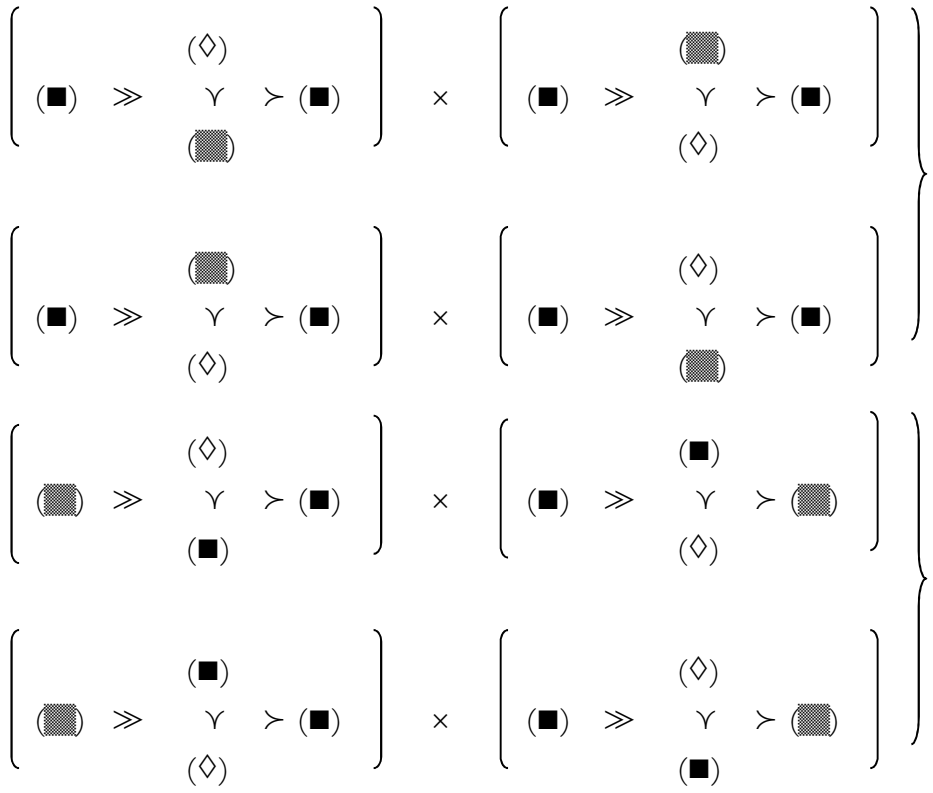
Regulativ:
I = sS



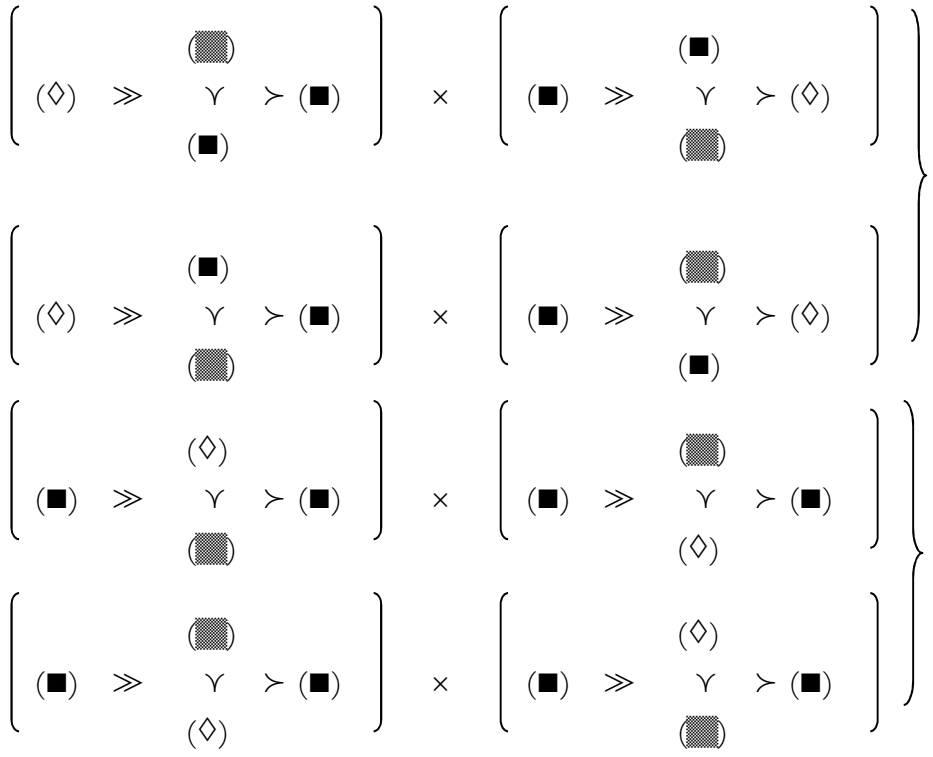
Mediale Automaten (M = oS)

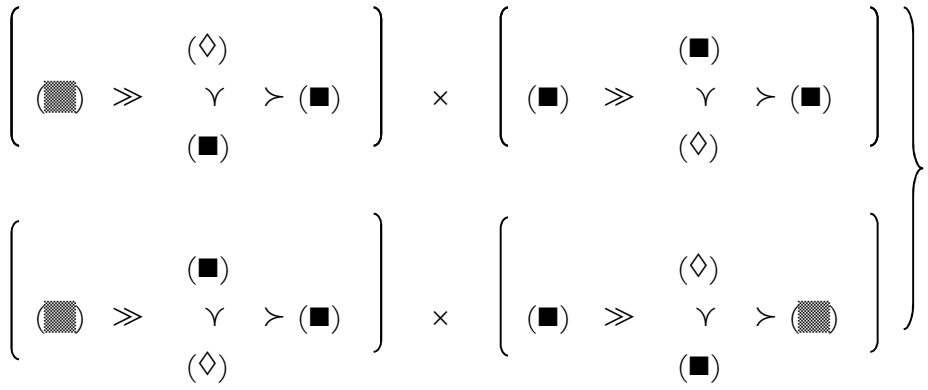


Regulativ:
Q = sO



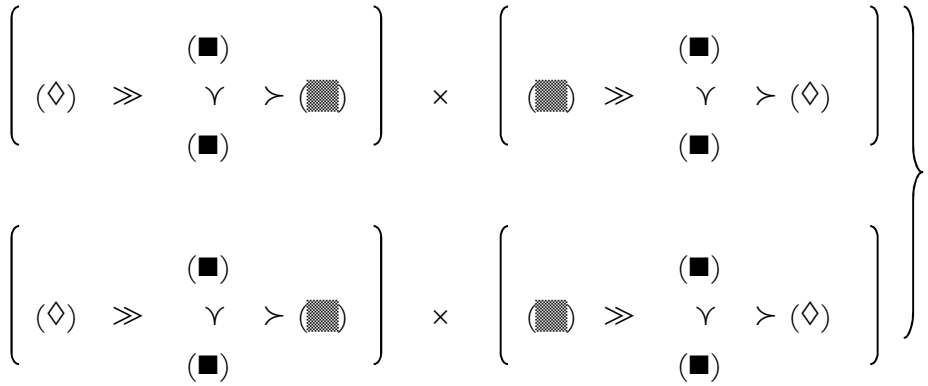
Objektale Automaten (O = oO)



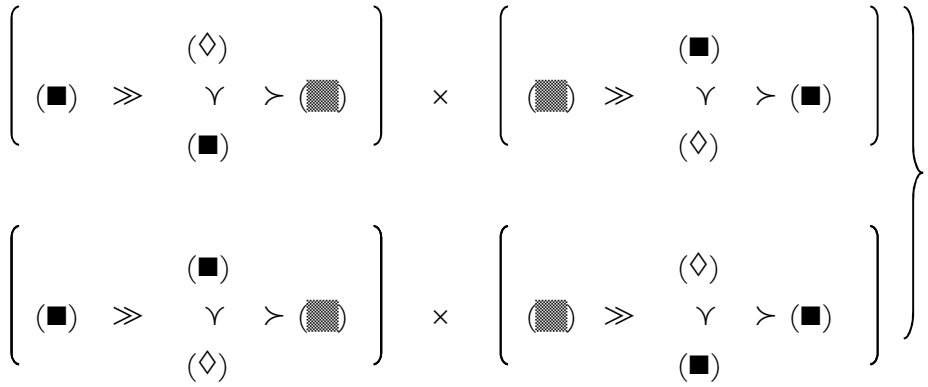


Regulativ:
I = sS

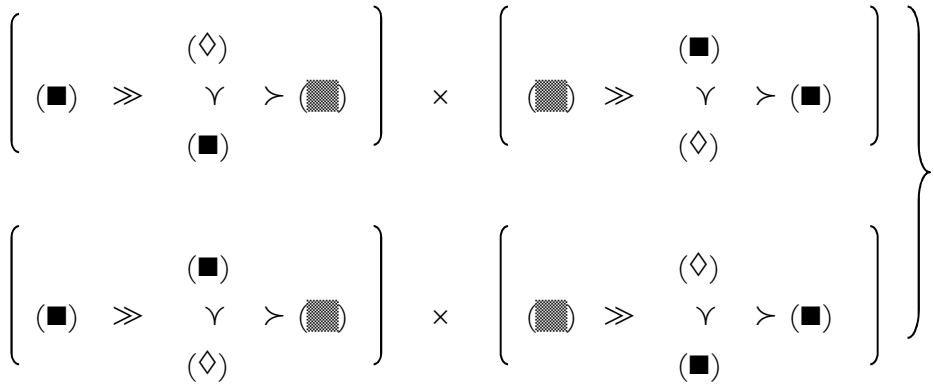
Interpretative Automaten (I = sS)



Regulativ:
Q = sO



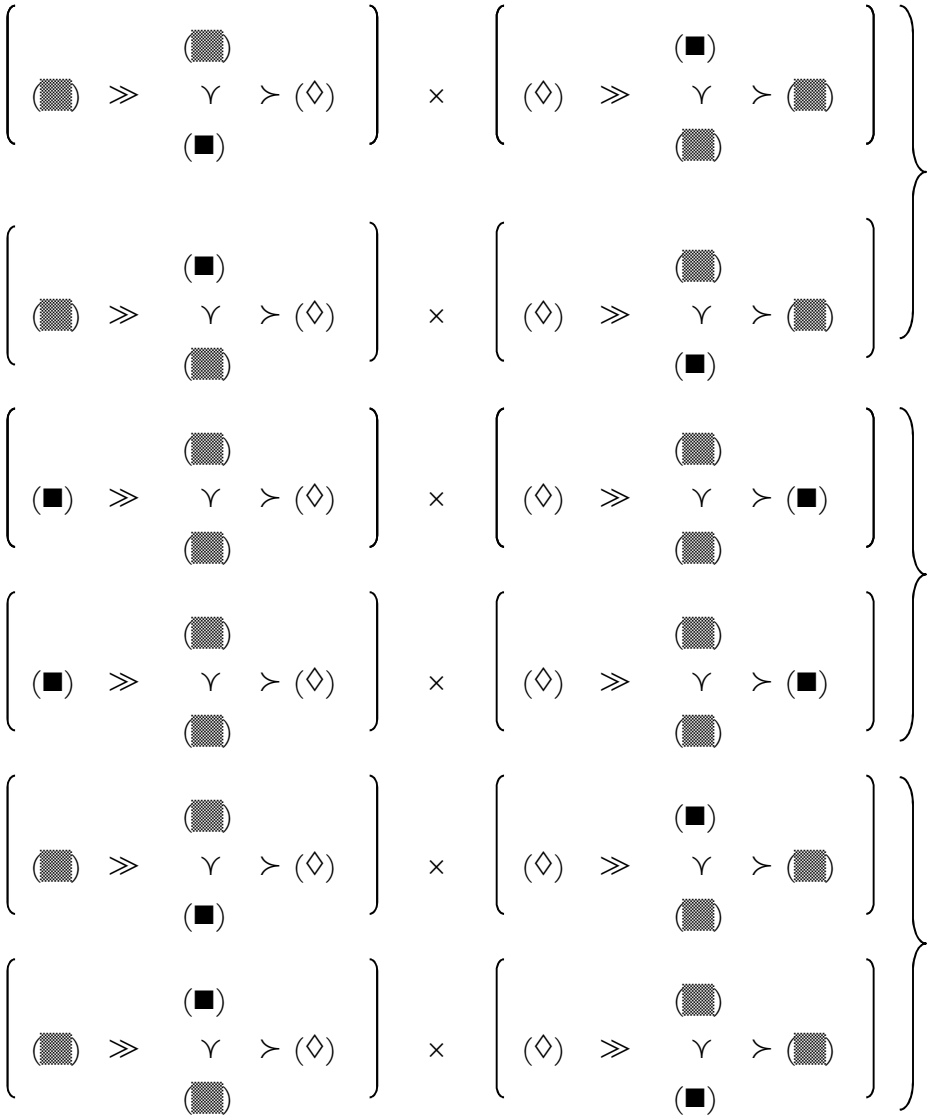
Regulativ:
M = oS



Regulativ:
O = oO

6. Präsemiotisches Dualsystem (▒ ■ ▒ ◊) × (◊ ▒ ■ ▒)

Qualitative Automaten (Q = sO)

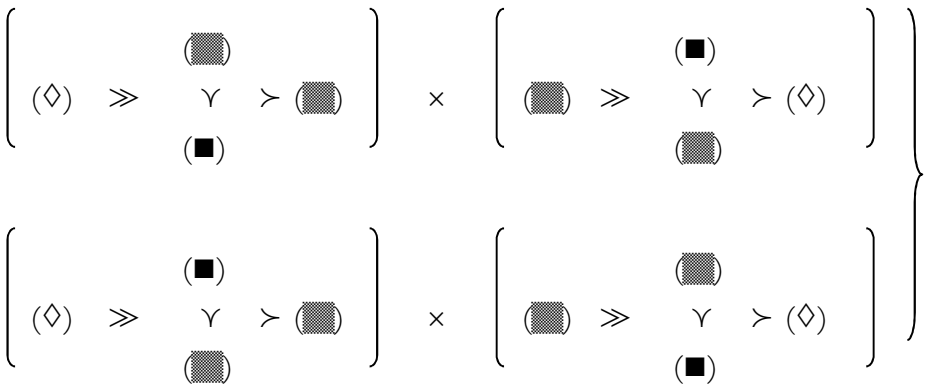


Regulativ: M = oS

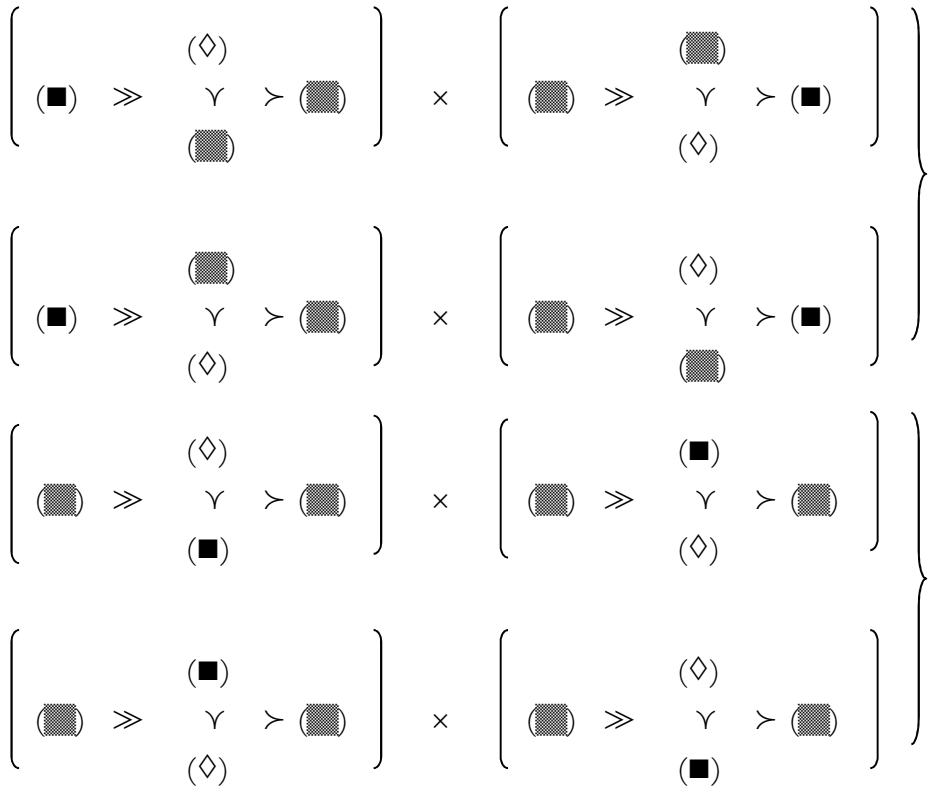
Regulativ: O = oO

Regulativ: I = sS

Mediale Automaten (M = oS)



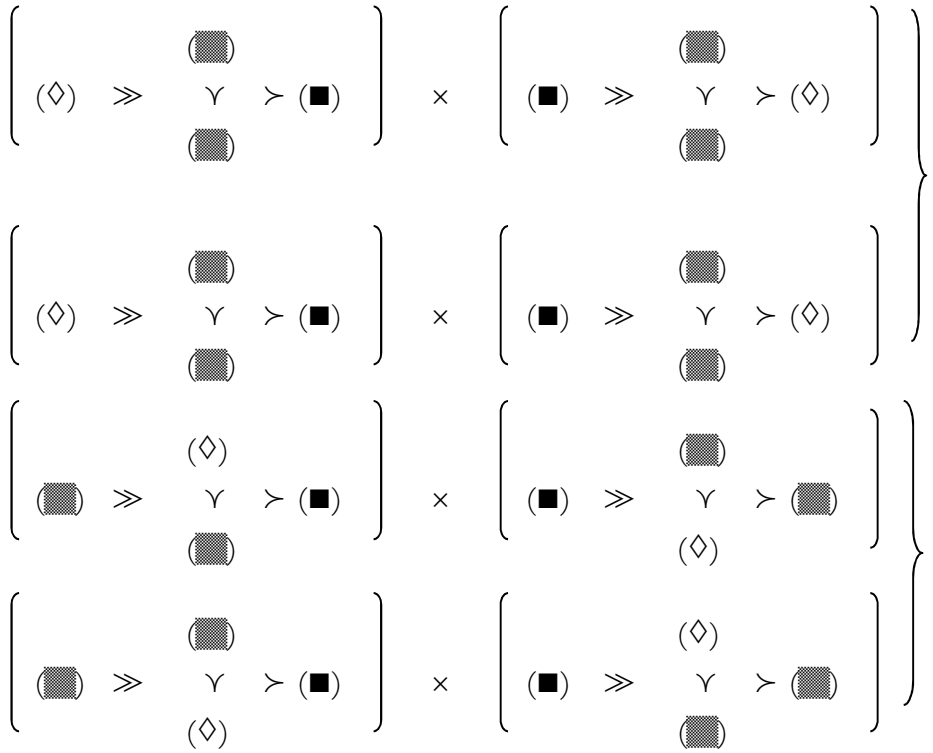
Regulativ: Q = sO



Regulativ:
O = oO

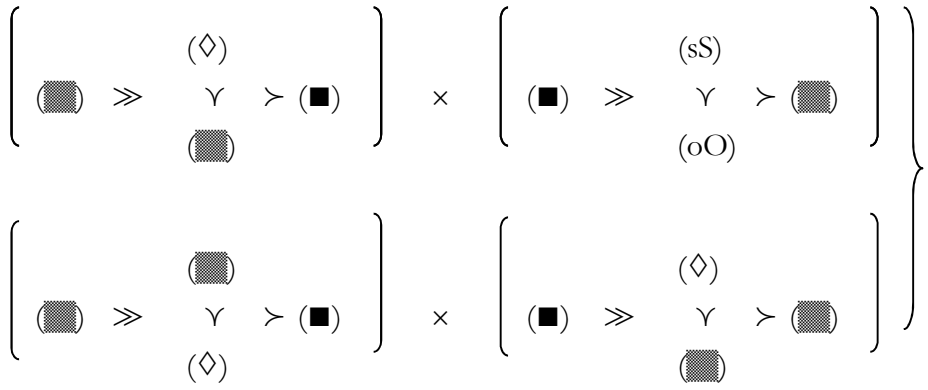
Regulativ:
I = sS

Objektale Automaten (O = oO)



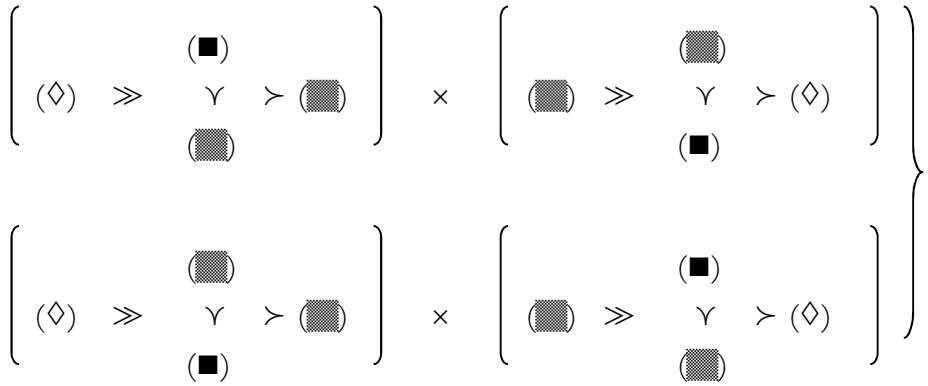
Regulativ:
Q = sO

Regulativ:
M = oS

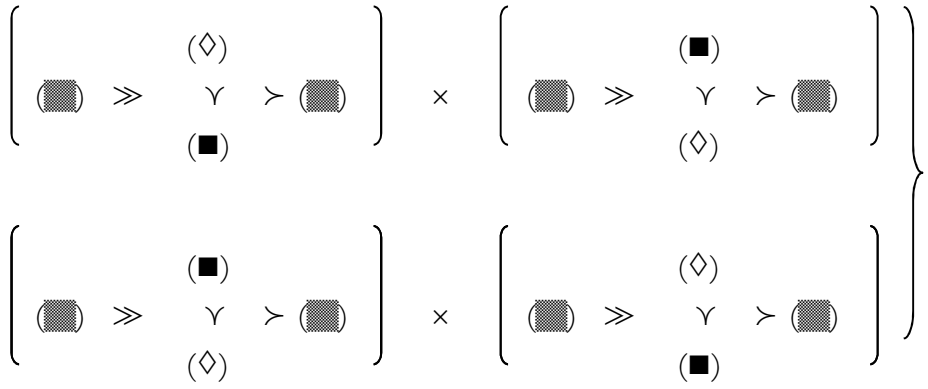


Regulativ:
I = sS

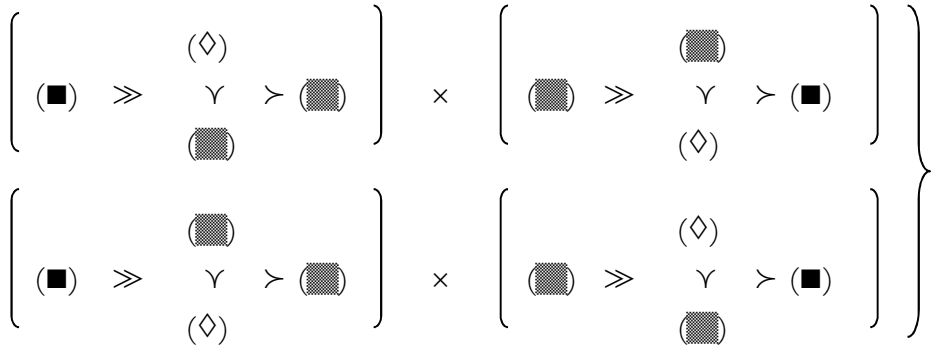
Interpretative Automaten (I = sS)



Regulativ:
Q = sO



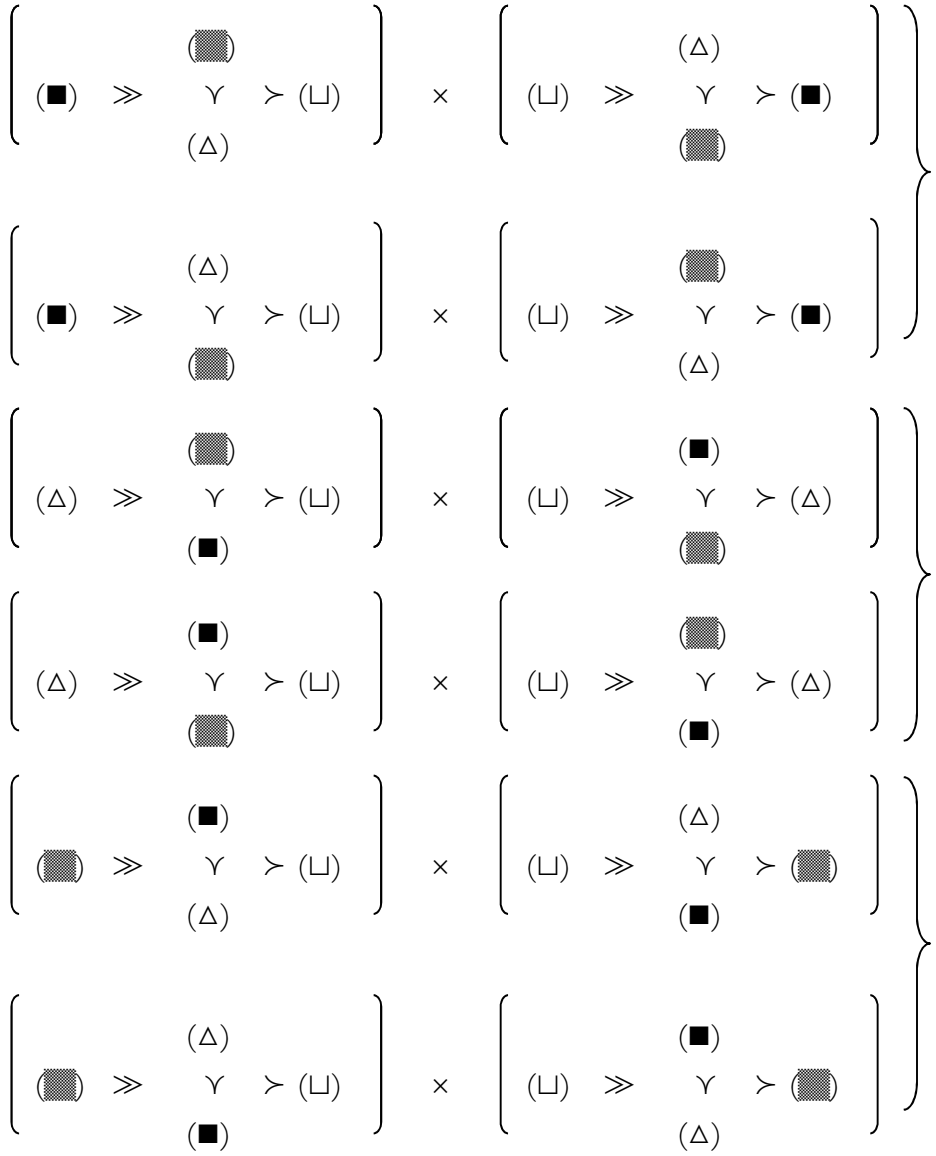
Regulativ:
M = oS



Regulativ:
O = oO

7. Präsemiotisches Dualsystem (▒ △ ■ ⊔) × (⊔ ■ △ ▒)

Qualitative Automaten (Q = sO)

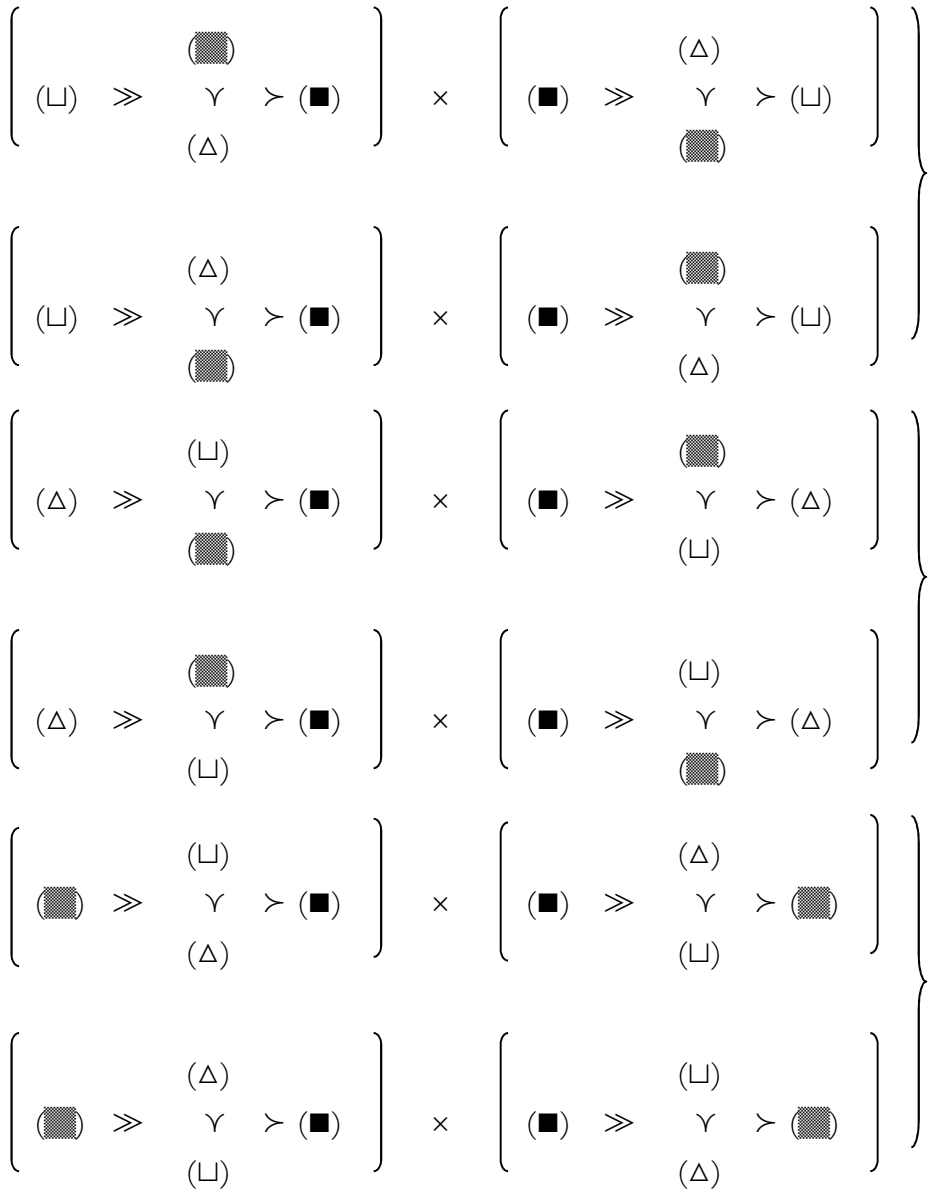


Regulativ:
M = oS

Regulativ:
O = oO

Regulativ:
I = sS

Mediale Automaten (M = oS)

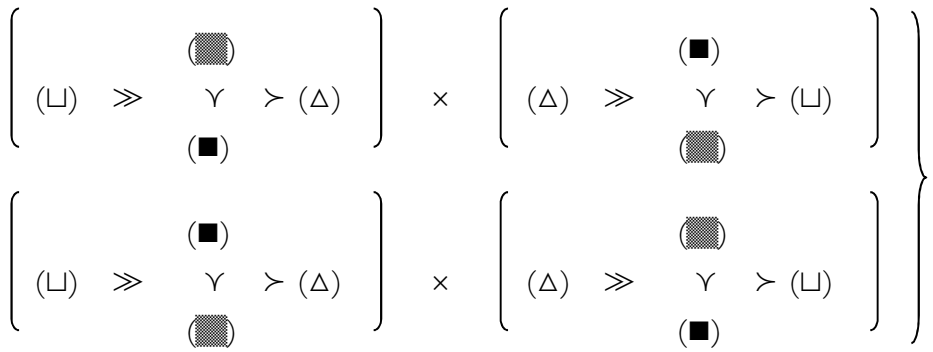


Regulativ:
Q = sO

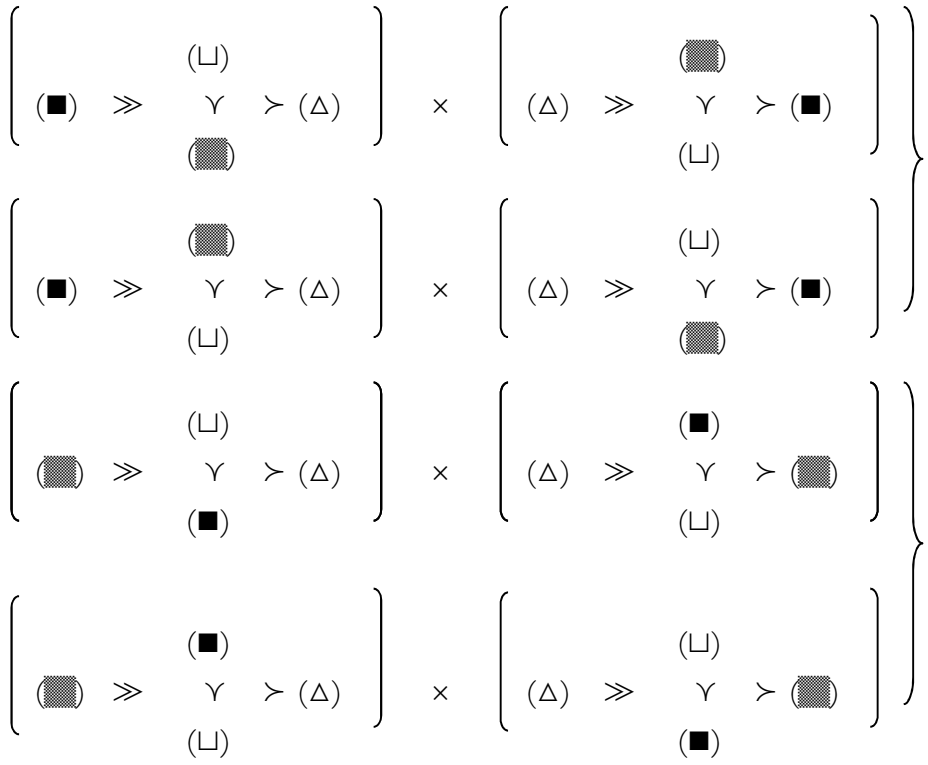
Regulativ:
O = oO

Regulativ:
I = sS

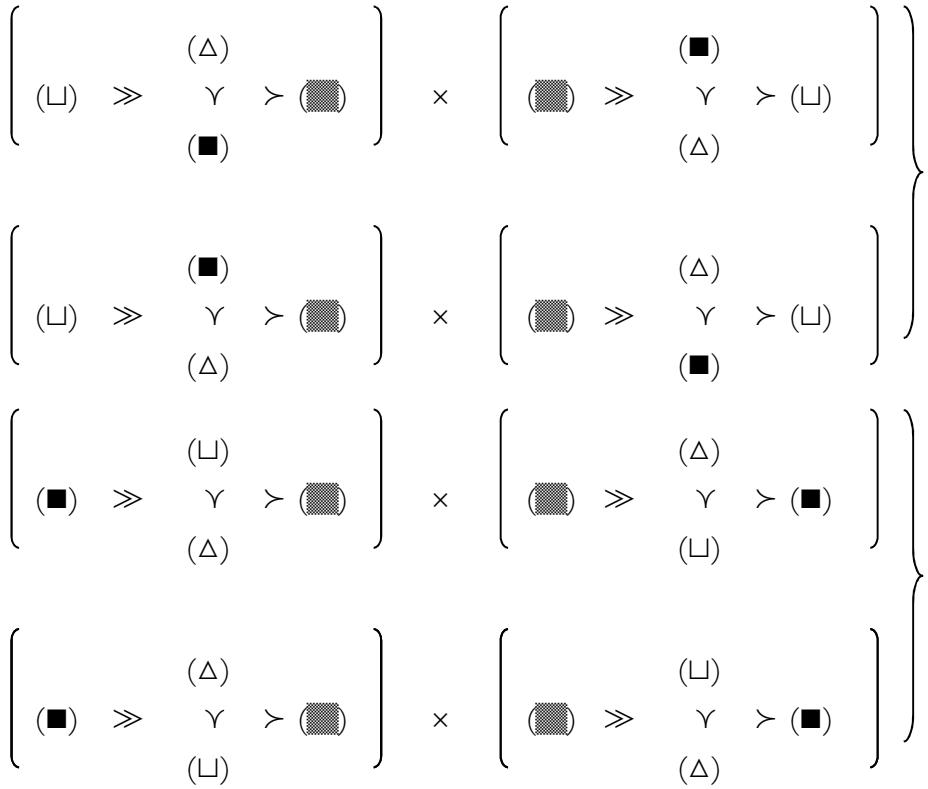
Objektale Automaten (O = oO)

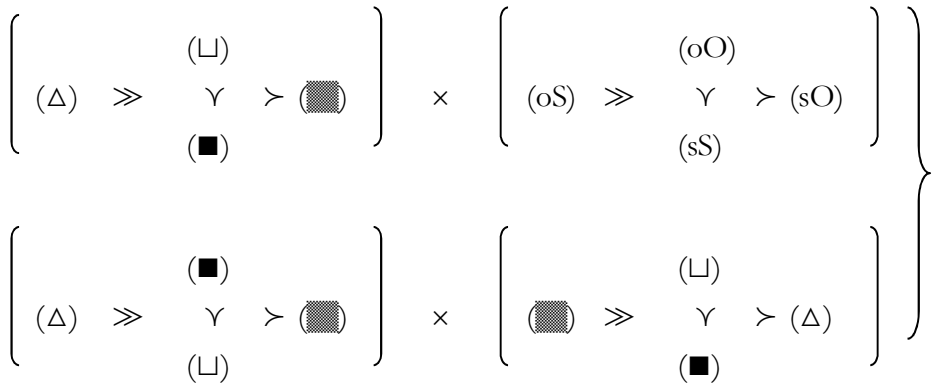


Regulativ:
Q= sO



Interpretative Automaten (I = sS)

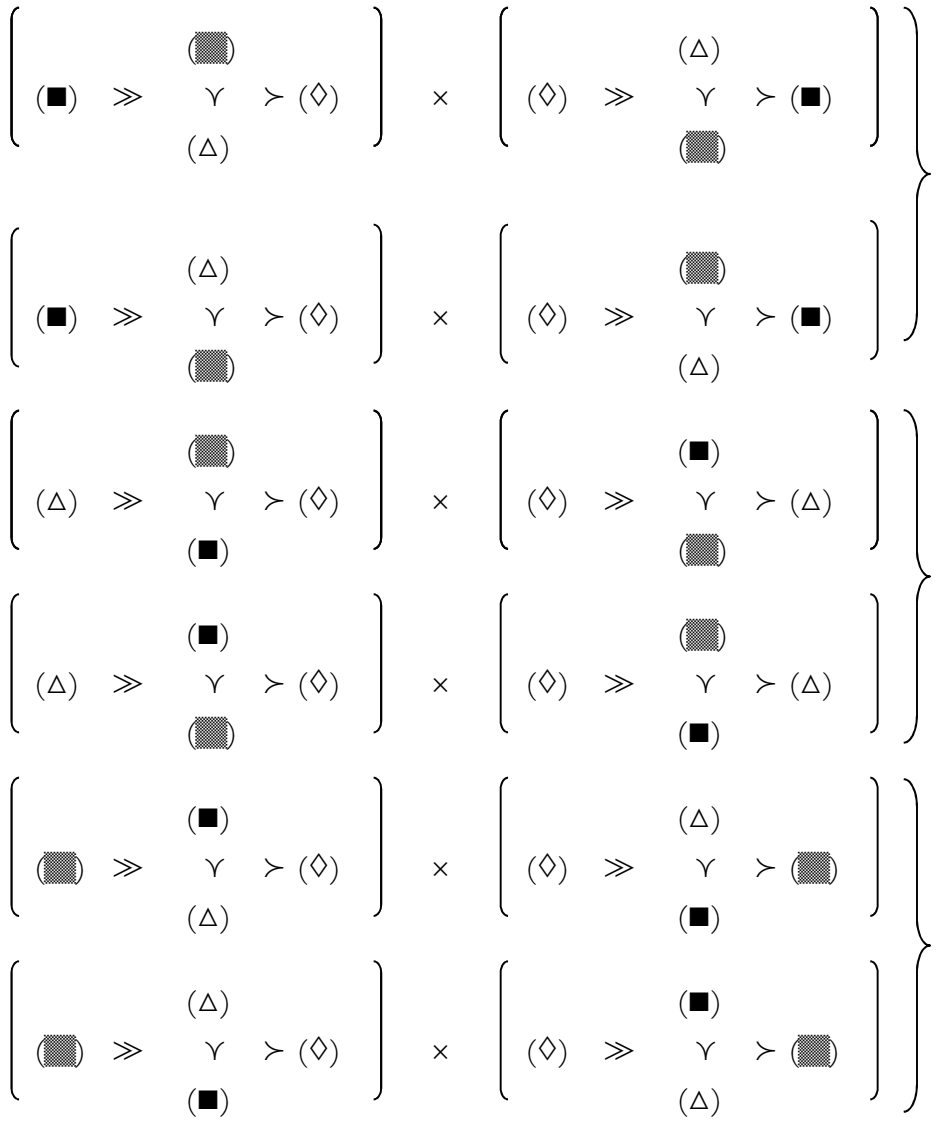




Regulativ:
O = oO

8. Präsemiotisches Dualsystem (▒ △ ■ ◊) × (◊ ■ △ ▒)

Qualitative Automaten (Q = sO)

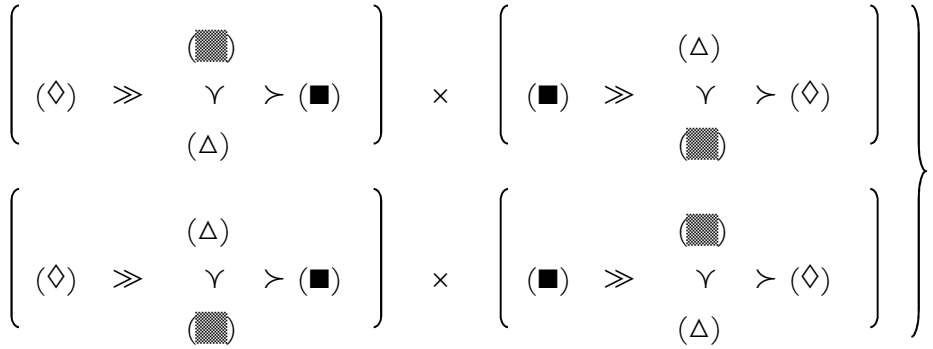


Regulativ:
M = oS

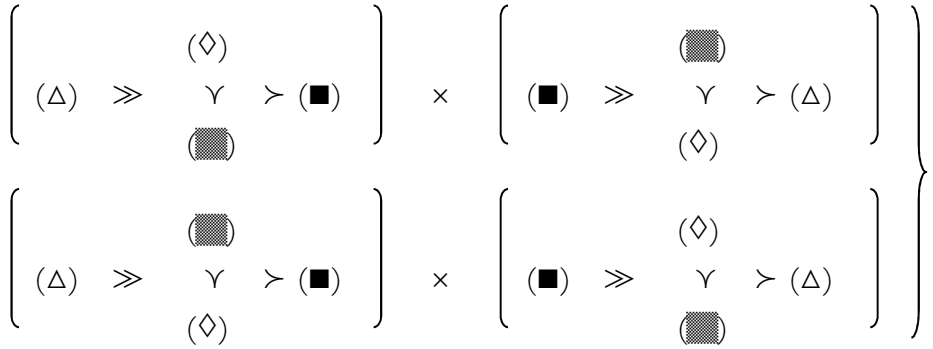
Regulativ:
O = oO

Regulativ:
I = sS

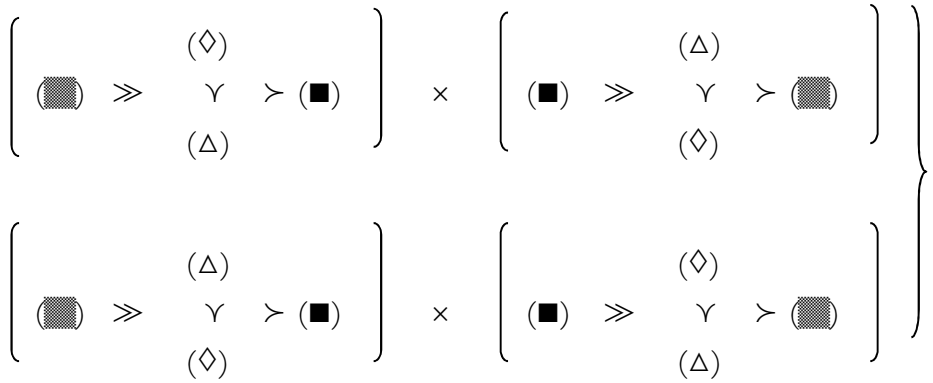
Mediale Automaten (M = oS)



Regulativ:
Q = sO

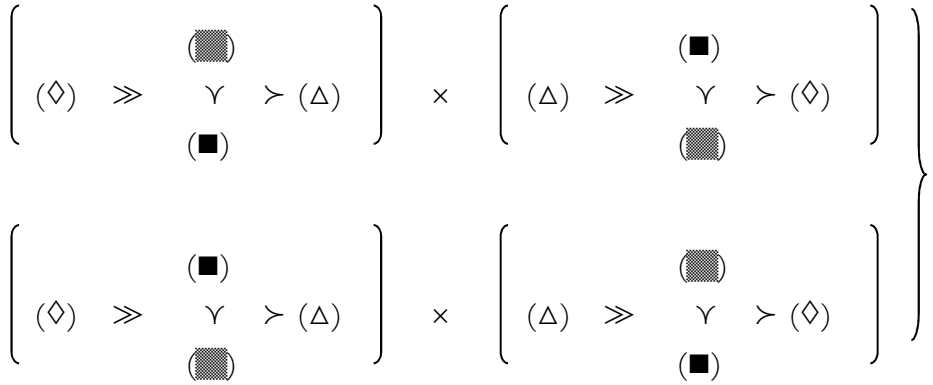


Regulativ:
O = oO

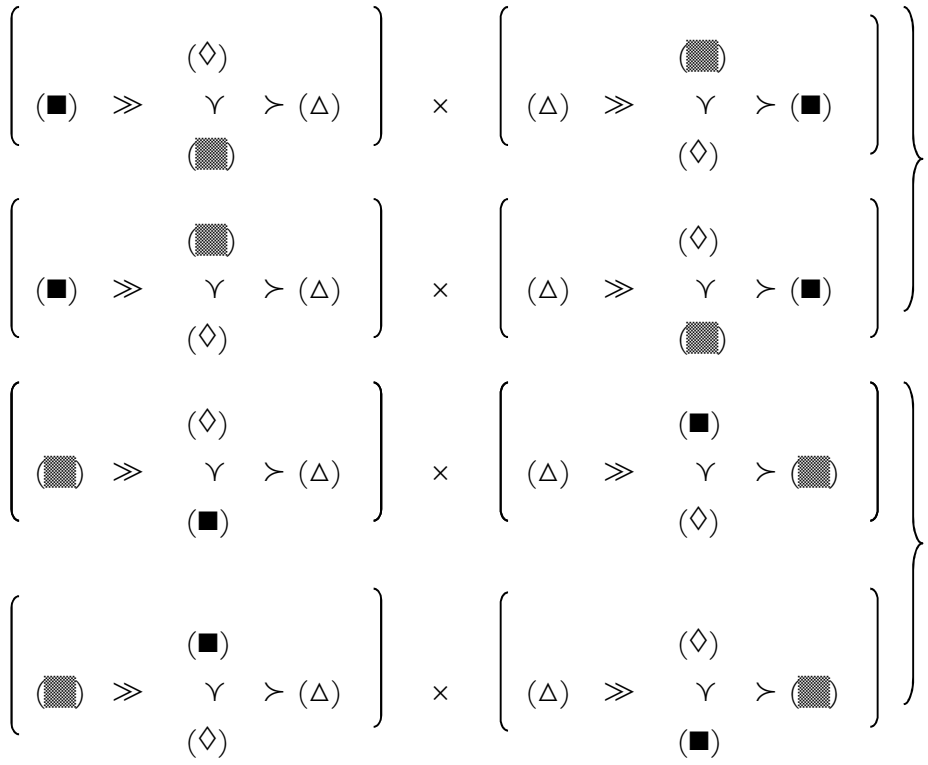


Regulativ:
I = sS

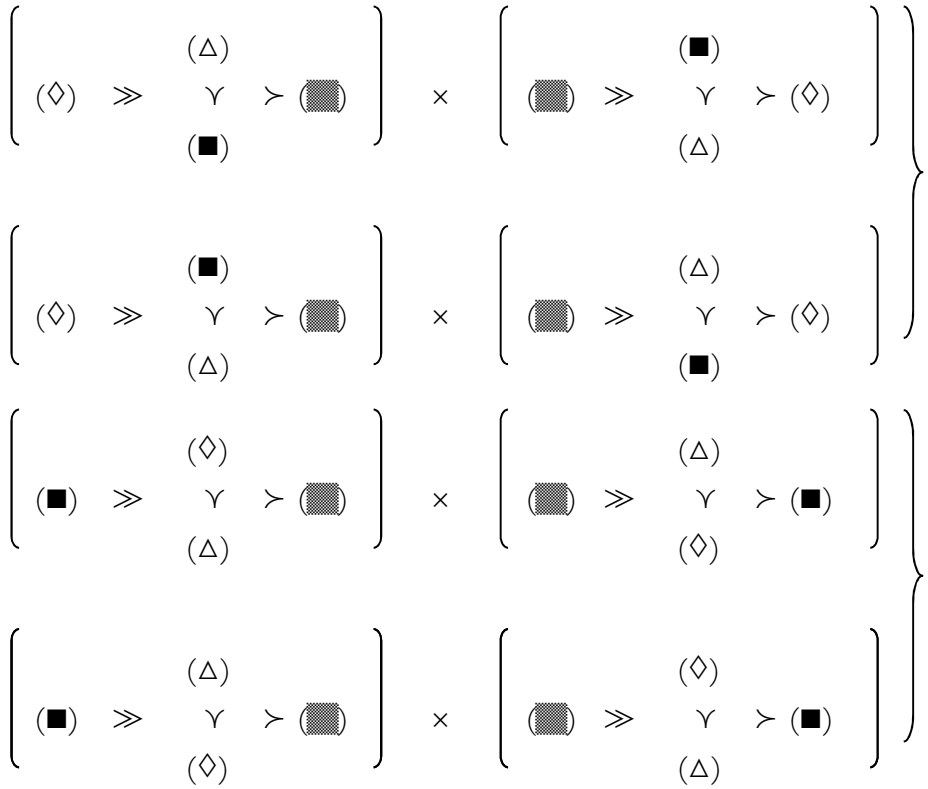
Objektale Automaten (O = oO)

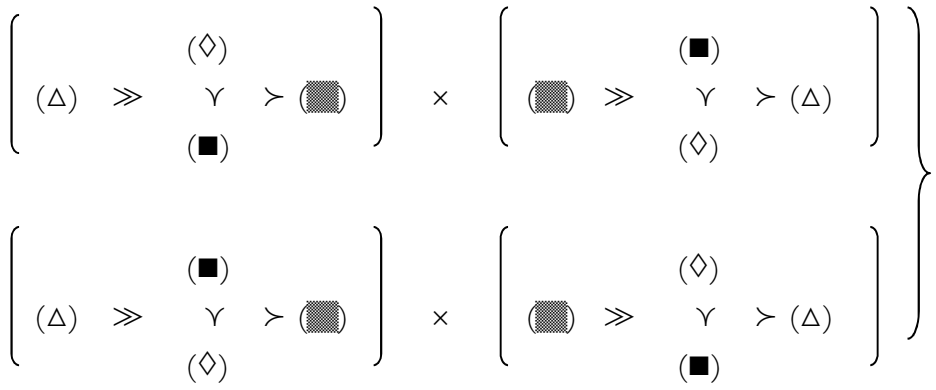


Regulativ:
Q = sO



Interpretative Automaten (I = sS)

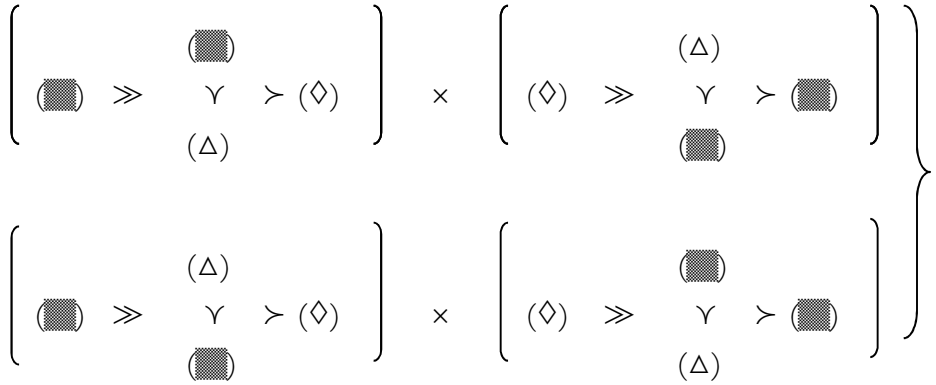




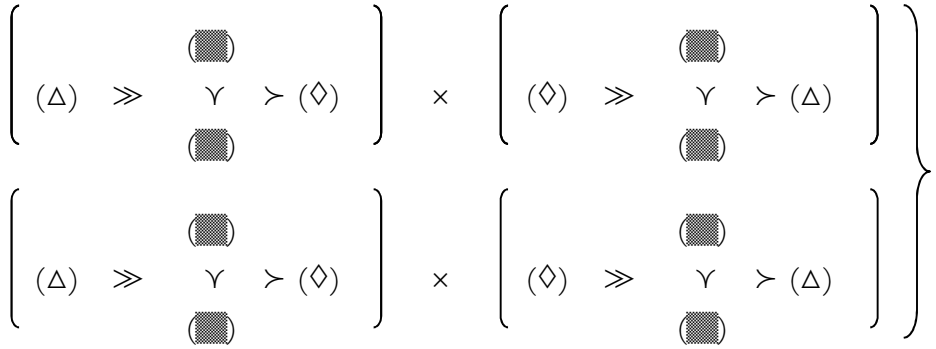
Regulativ:
O = oO

9. Präsemiotisches Dualsystem (▩ △ ▩ ◊) × (◊ ▩ △ ▩)

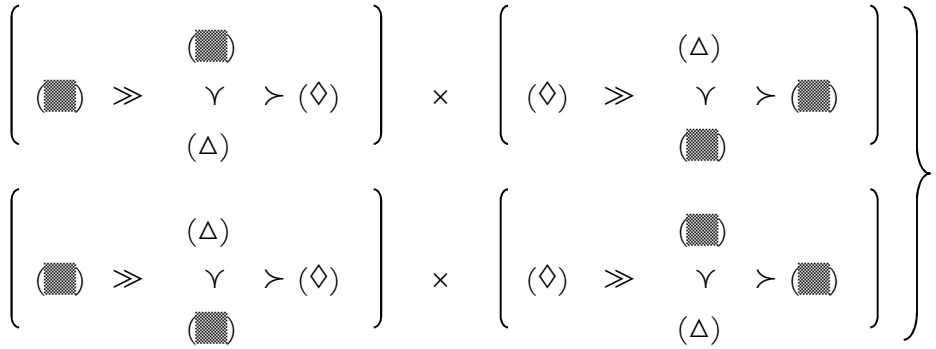
Qualitative Automaten (Q = sO)



Regulativ:
M = oS

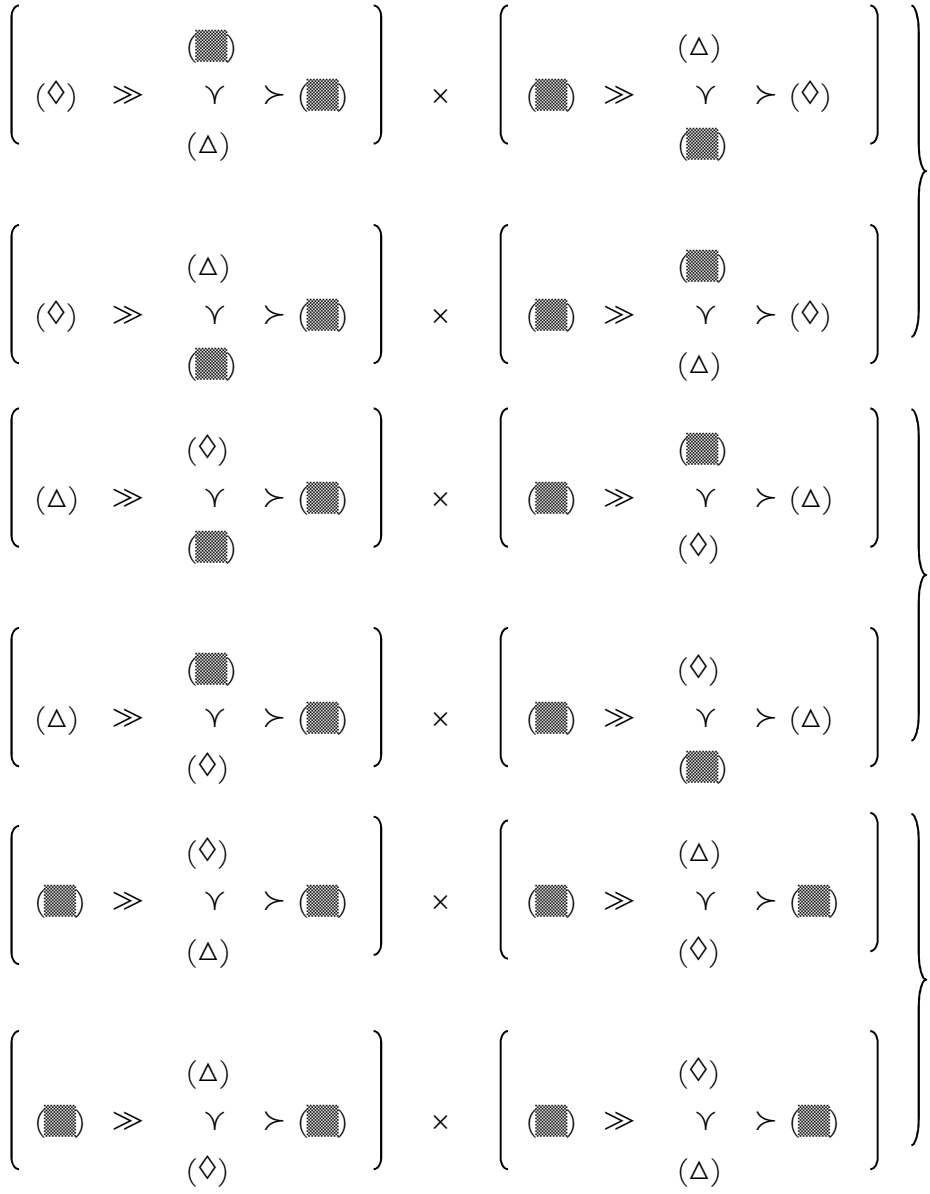


Regulativ:
O = oO



Regulativ:
I = sS

Mediale Automaten (M = oS)

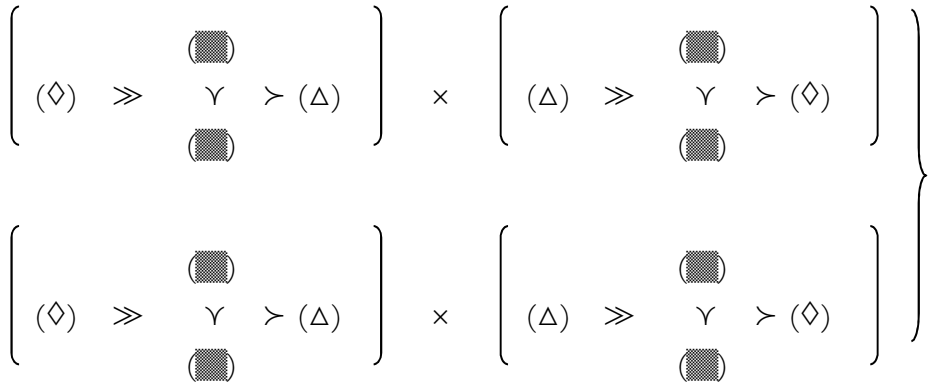


Regulativ:
Q = sO

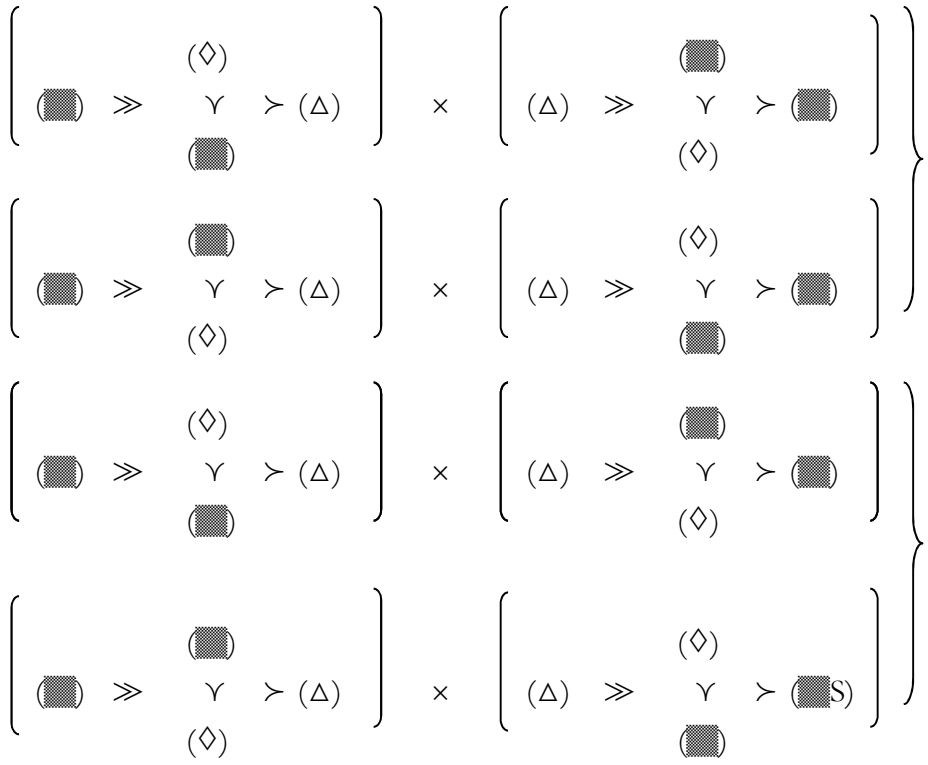
Regulativ:
O = oO

Regulativ:
I = sS

Objektale Automaten (O = oO)



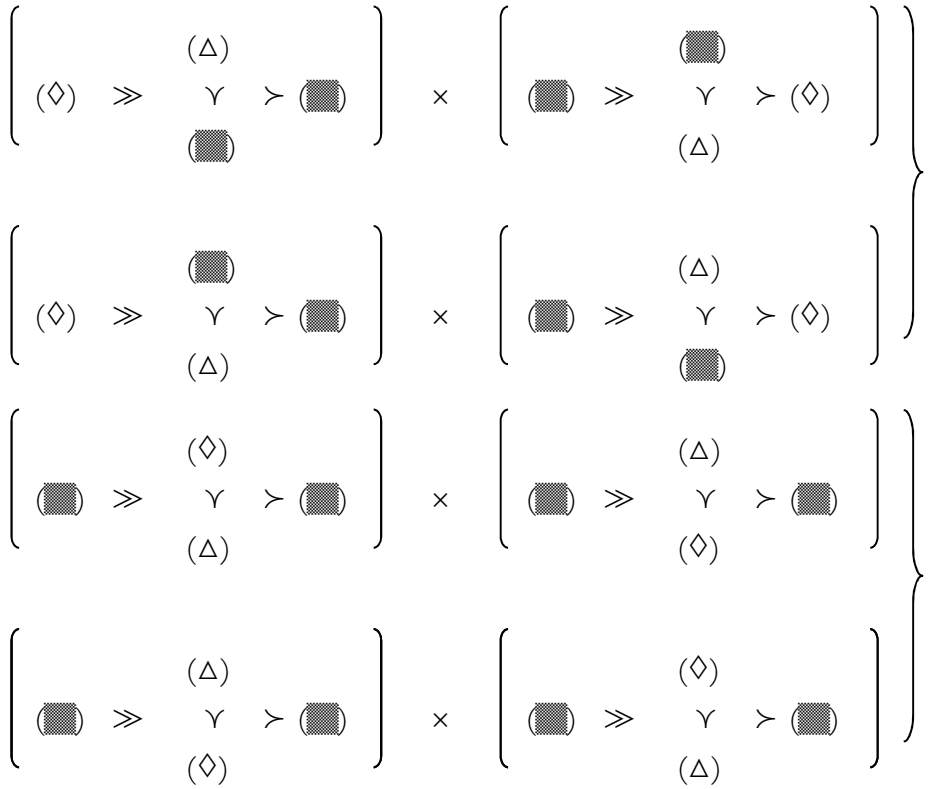
Regulativ:
Q = sO



Regulativ:
M = oS

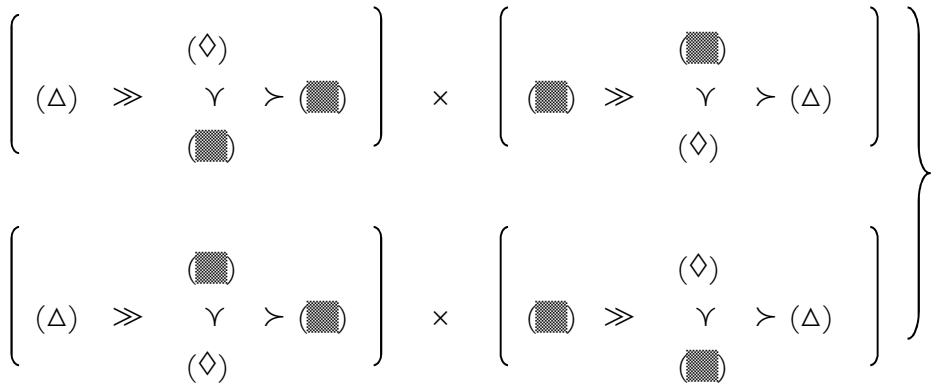
Regulativ:
I = sS

Interpretative Automaten (I = sS)



Regulativ:
Q = sO

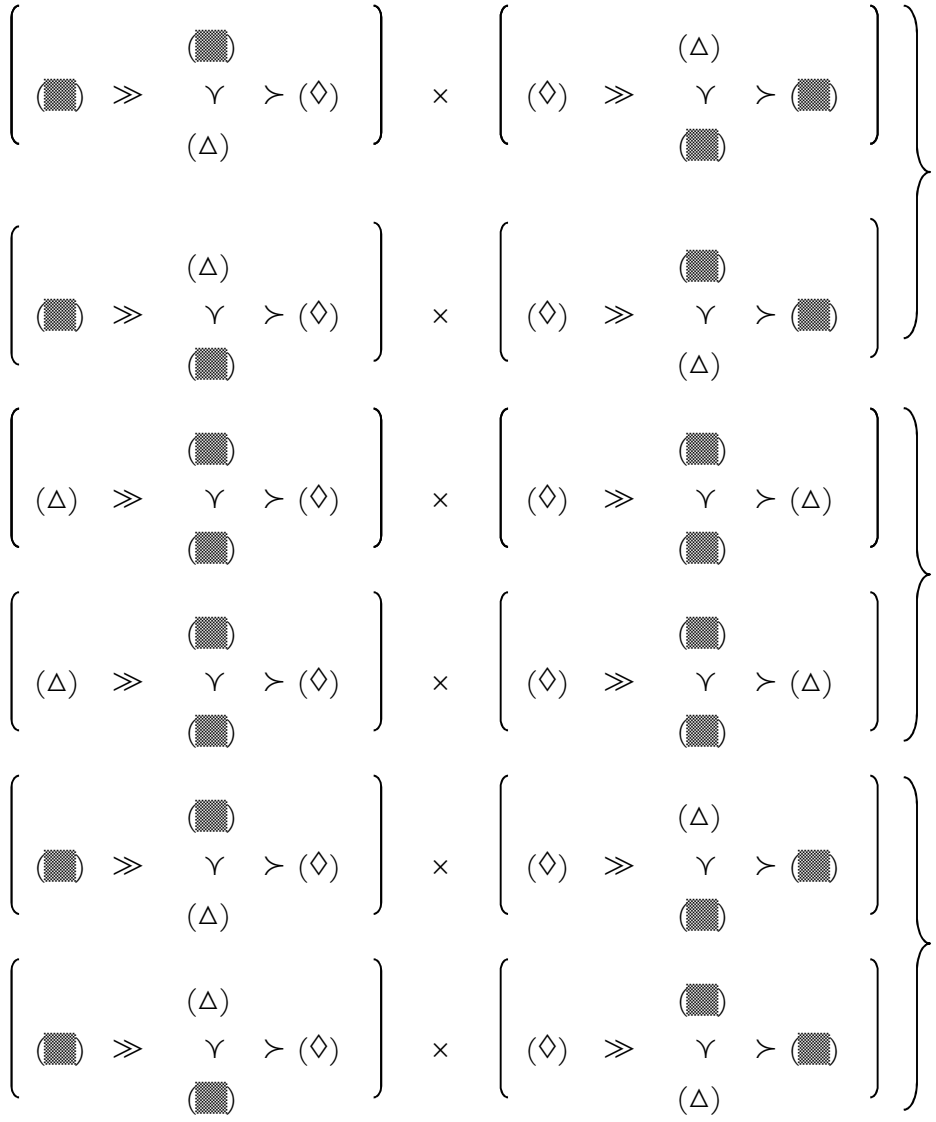
Regulativ:
M = oS



Regulativ:
O = oO

10. Präsemiotisches Dualsystem (▩ △ ▩ ◊) × (◊ ▩ △ ▩)

Qualitative Automaten (Q = sO)

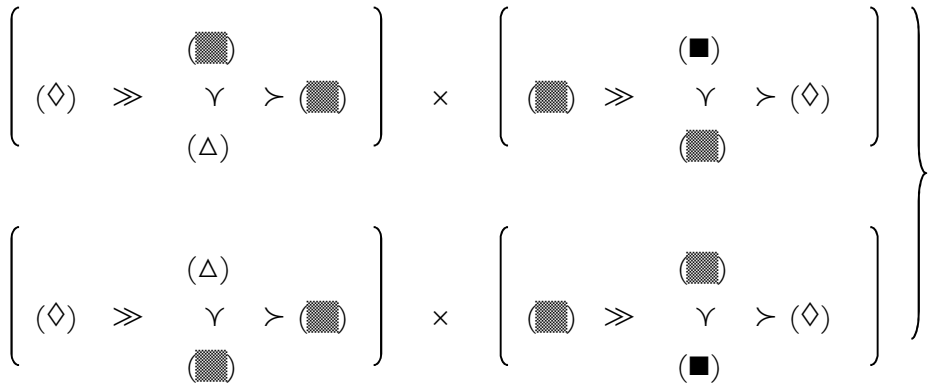


Regulativ:
M = oS

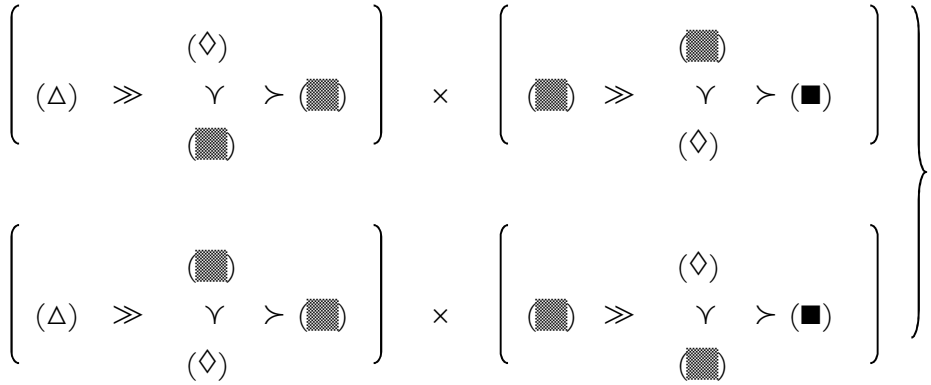
Regulativ:
O = oO

Regulativ:
I = sS

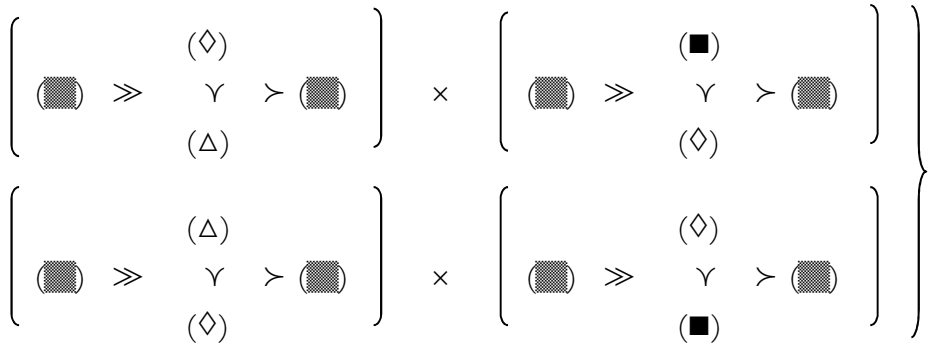
Mediale Automaten (M = oS)



Regulativ:
Q = sO

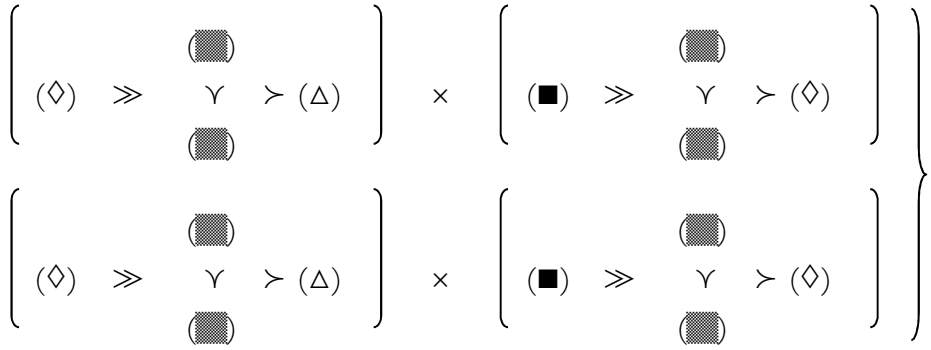


Regulativ:
O = oO

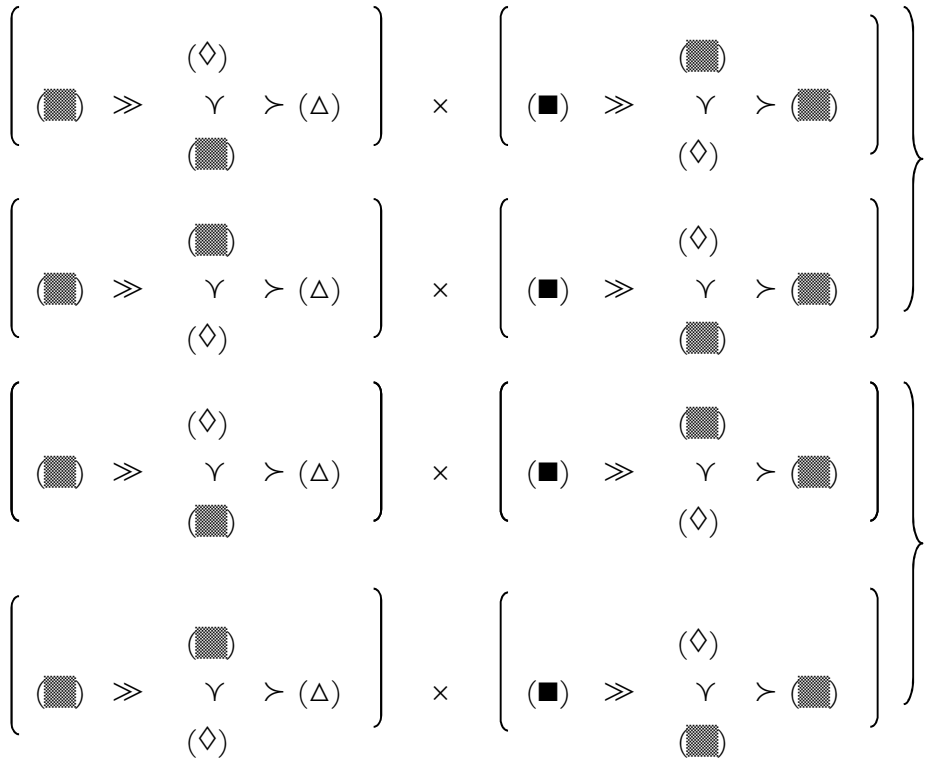


Regulativ:
I = sS

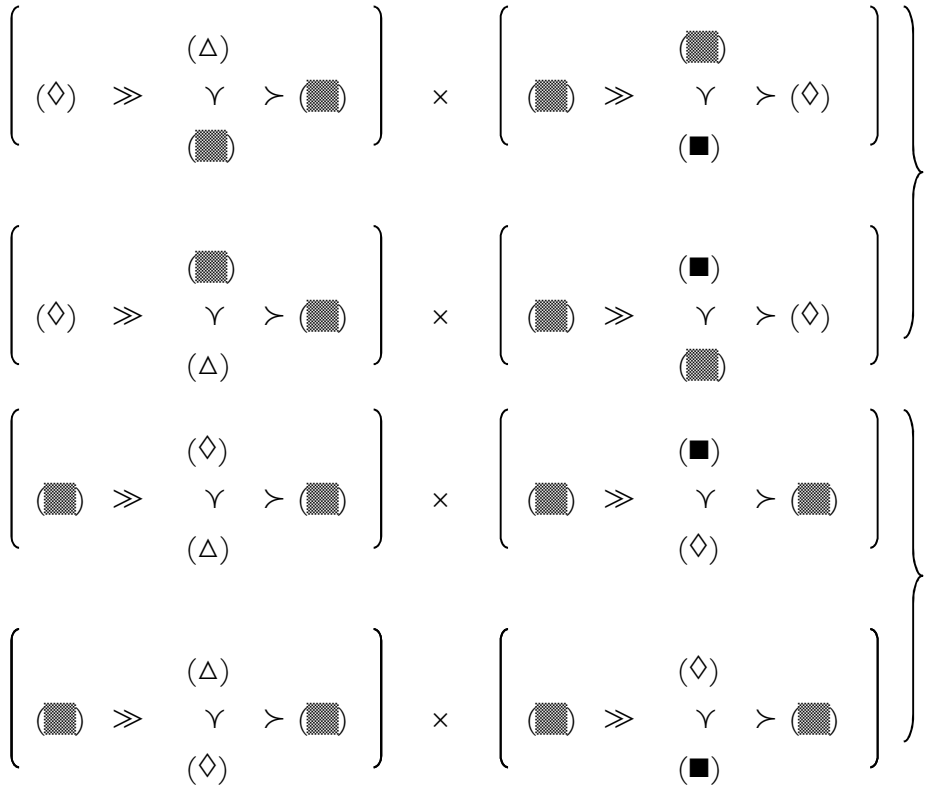
Objektale Automaten (O = oO)

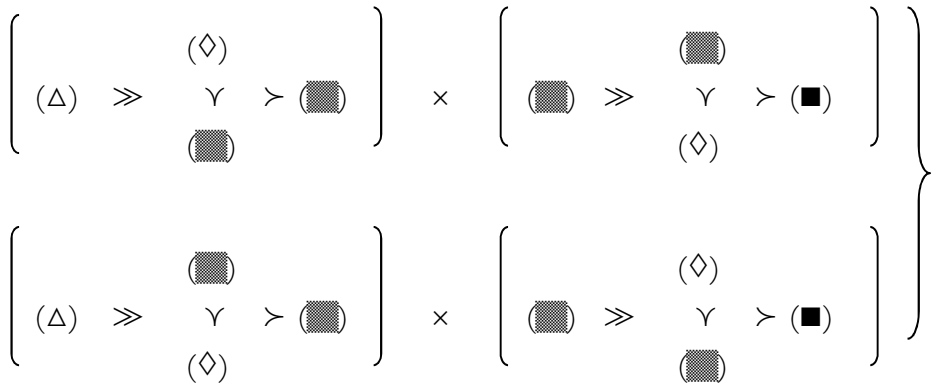


Regulativ:
Q = sO



Interpretative Automaten (I = sS)

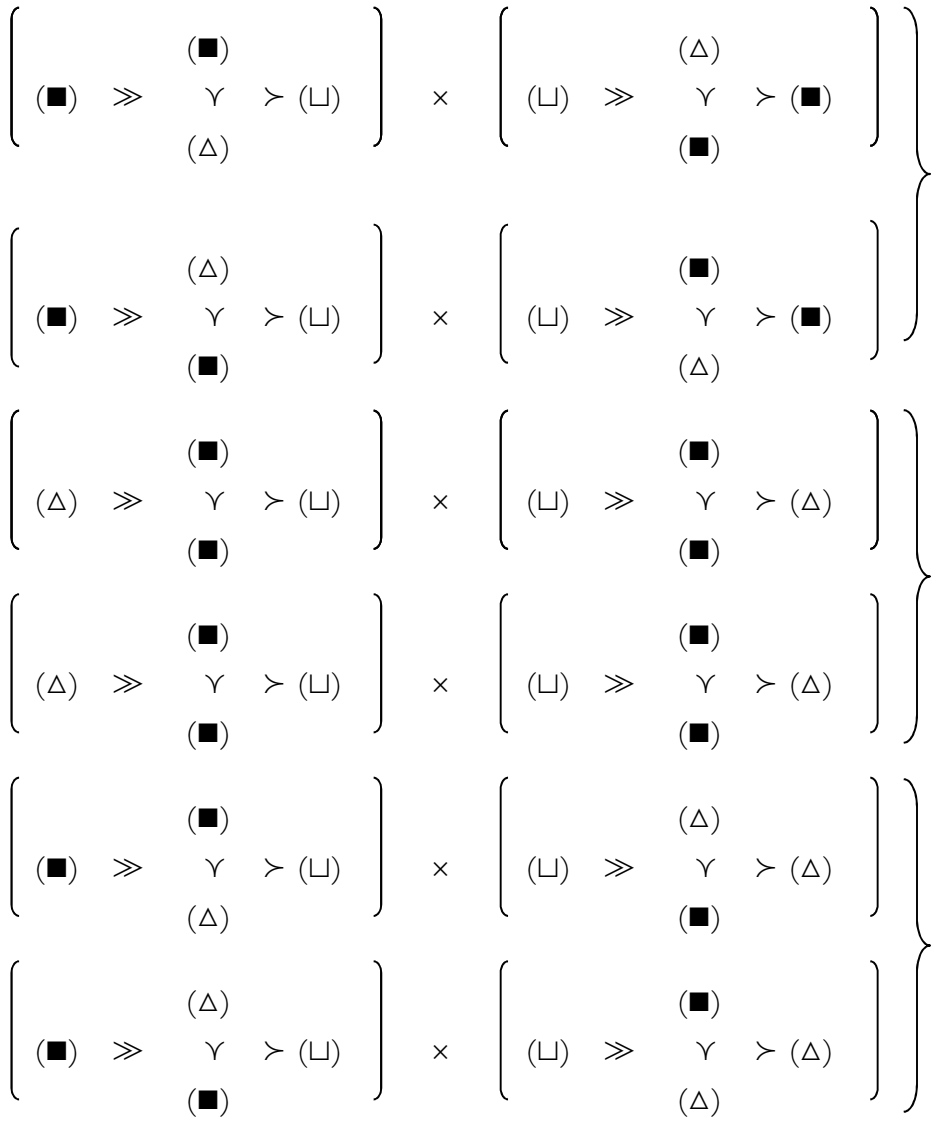




Regulativ:
O = oO

11. Präsemiotisches Dualsystem (■ △ ■ ⊔) × (⊔ ■ △ ■)

Qualitative Automaten (Q = sO)

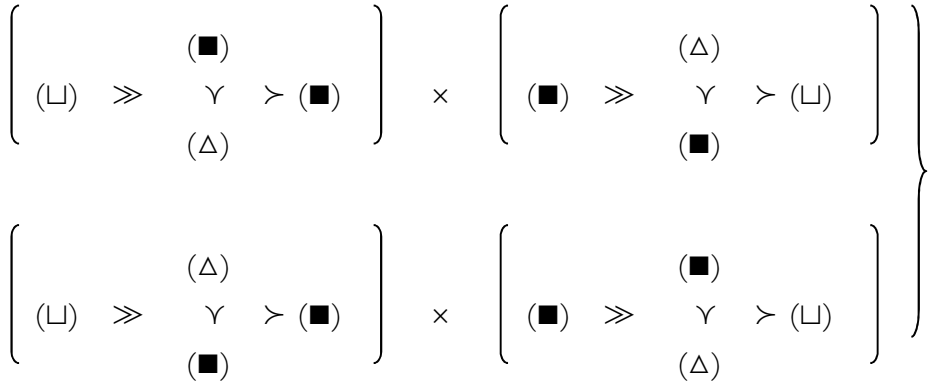


Regulativ:
M = oS

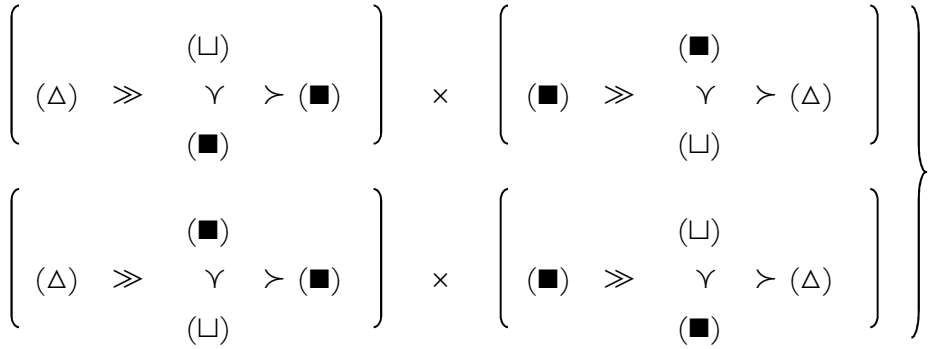
Regulativ:
O = oO

Regulativ:
I = sS

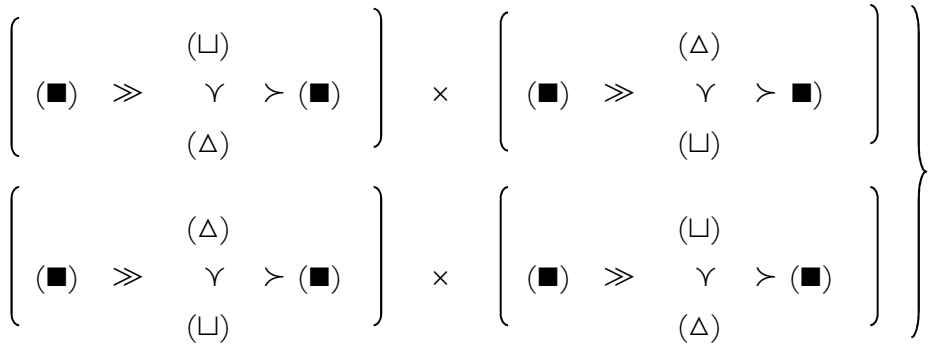
Mediale Automaten (M = oS)



Regulativ:
Q = sO

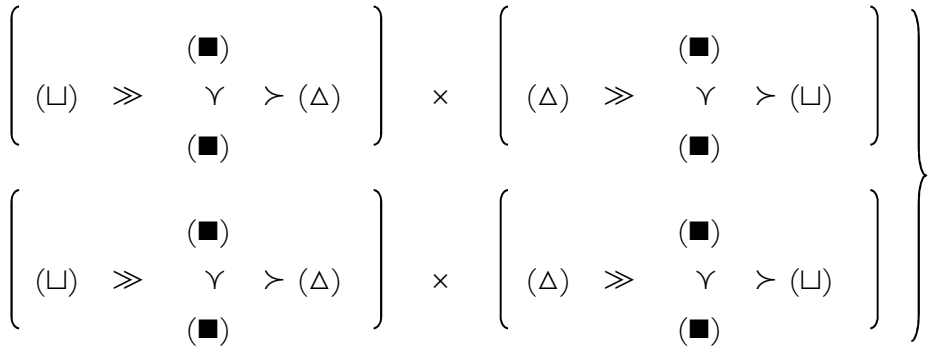


Regulativ:
Q = oO

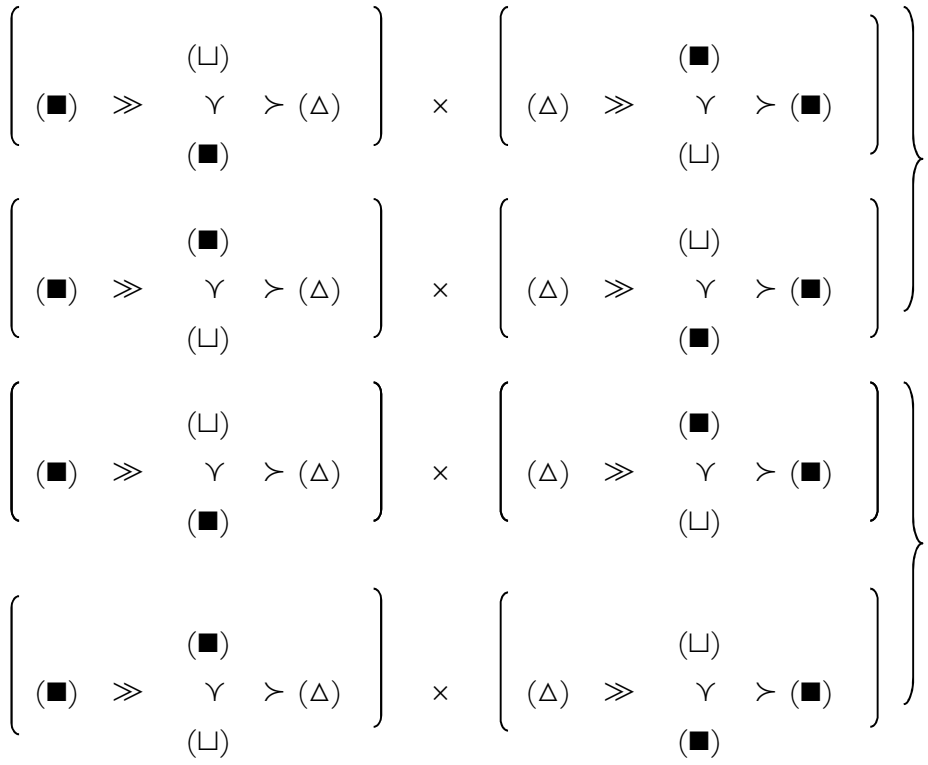


Regulativ:
I = sS

Objektale Automaten (O = oO)



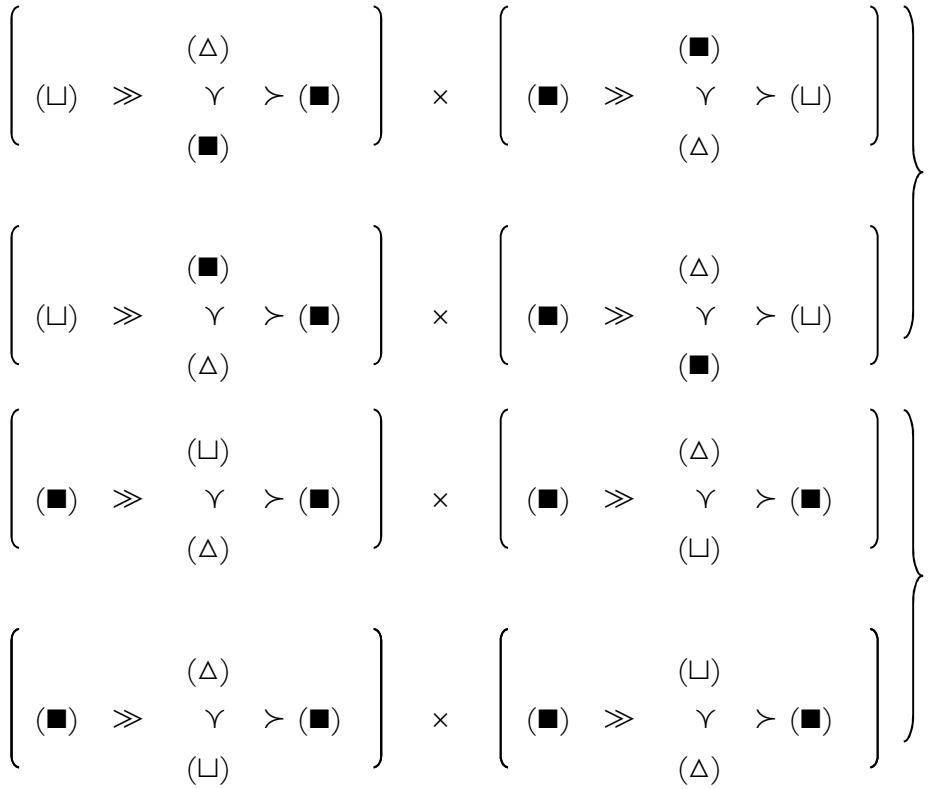
Regulativ:
Q = sO



Regulativ:
M = oS

Regulativ:
I = sS

Interpretative Automaten (I = sS)



Regulativ:
Q = sO

Regulativ:
M = oS

$$\left\{\begin{array}{l}\left(\begin{array}{ccc} & (\sqcup) & \\ (\triangle) \gg & \curlyvee & \succ (\blacksquare) \\ & (\blacksquare) & \end{array}\right) \times \left(\begin{array}{ccc} & (\blacksquare) & \\ (\blacksquare) \gg & \curlyvee & \succ (\triangle) \\ & (\sqcup) & \end{array}\right) \\ \left(\begin{array}{ccc} & (\blacksquare) & \\ (\triangle) \gg & \curlyvee & \succ (\blacksquare) \\ & (\sqcup) & \end{array}\right) \times \left(\begin{array}{ccc} & (\sqcup) & \\ (\blacksquare) \gg & \curlyvee & \succ (\triangle) \\ & (\blacksquare) & \end{array}\right) \end{array}\right.$$

Regulativ:
O = oO

12. Präsemiotisches Dualsystem (■ △ ■ ◊) × (◊ ■ △ ■)

Qualitative Automaten (Q = sO)

$$\left\{\begin{array}{l}\left(\begin{array}{ccc} & (\blacksquare) & \\ (\blacksquare) \gg & \curlyvee & \succ (\Diamond) \\ & (\triangle) & \end{array}\right) \times \left(\begin{array}{ccc} & (\triangle) & \\ (\Diamond) \gg & \curlyvee & \succ (\blacksquare) \\ & (\blacksquare) & \end{array}\right) \\ \left(\begin{array}{ccc} & (\triangle) & \\ (\blacksquare) \gg & \curlyvee & \succ (\Diamond) \\ & (\blacksquare) & \end{array}\right) \times \left(\begin{array}{ccc} & (\blacksquare) & \\ (\Diamond) \gg & \curlyvee & \succ (\blacksquare) \\ & (\triangle) & \end{array}\right) \end{array}\right.$$

Regulativ:
M = oS

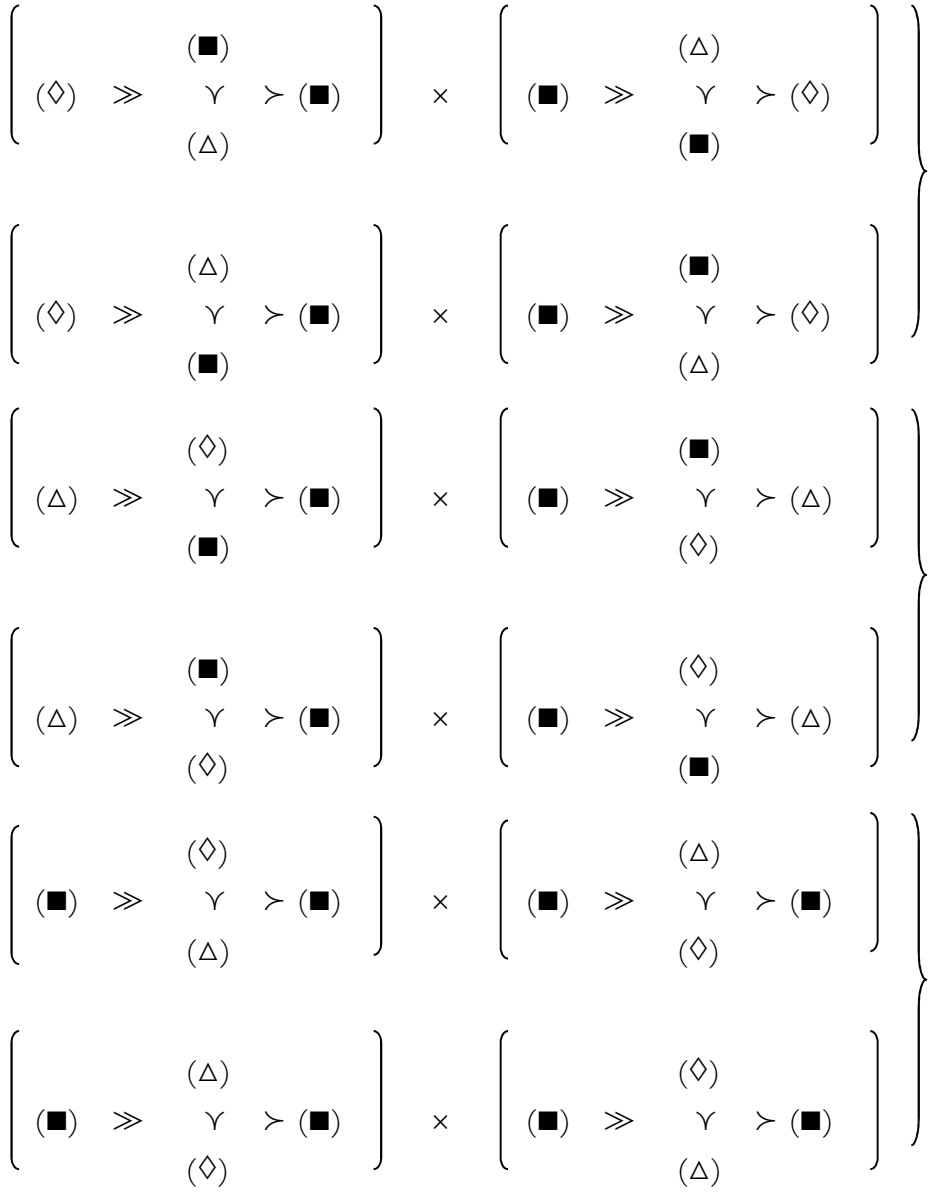
$$\left\{\begin{array}{l}\left(\begin{array}{ccc} & (\blacksquare) & \\ (\triangle) \gg & \curlyvee & \succ (\Diamond) \\ & (\blacksquare) & \end{array}\right) \times \left(\begin{array}{ccc} & (\blacksquare) & \\ (\Diamond) \gg & \curlyvee & \succ (\triangle) \\ & (\blacksquare) & \end{array}\right) \\ \left(\begin{array}{ccc} & (\blacksquare) & \\ (\triangle) \gg & \curlyvee & \succ (\Diamond) \\ & (\blacksquare) & \end{array}\right) \times \left(\begin{array}{ccc} & (\blacksquare) & \\ (\Diamond) \gg & \curlyvee & \succ (\triangle) \\ & (\blacksquare) & \end{array}\right) \end{array}\right.$$

Regulativ:
O = oO

$$\left\{\begin{array}{l}\left(\begin{array}{ccc} & (\blacksquare) & \\ (\blacksquare) \gg & \curlyvee & \succ (\Diamond) \\ & (\triangle) & \end{array}\right) \times \left(\begin{array}{ccc} & (\triangle) & \\ (\Diamond) \gg & \curlyvee & \succ (\blacksquare) \\ & (\blacksquare) & \end{array}\right) \\ \left(\begin{array}{ccc} & (\triangle) & \\ (\blacksquare) \gg & \curlyvee & \succ (\Diamond) \\ & (\blacksquare) & \end{array}\right) \times \left(\begin{array}{ccc} & (\blacksquare) & \\ (\Diamond) \gg & \curlyvee & \succ (\blacksquare) \\ & (\triangle) & \end{array}\right) \end{array}\right.$$

Regulativ:
I = sS

Mediale Automaten (M = oS)

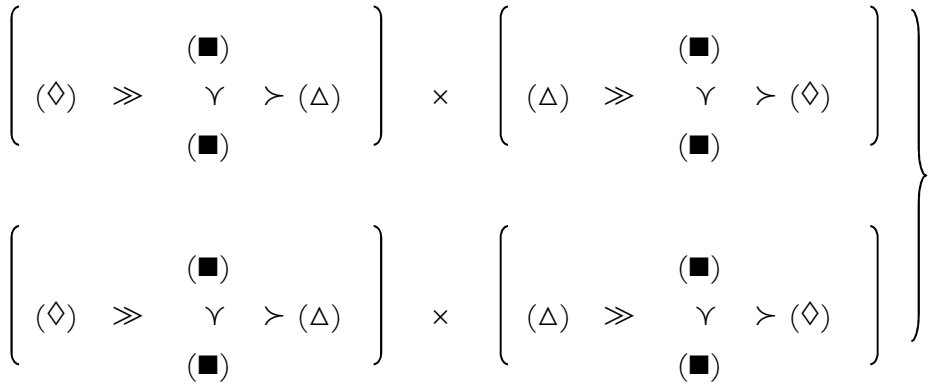


Regulativ:
Q = sO

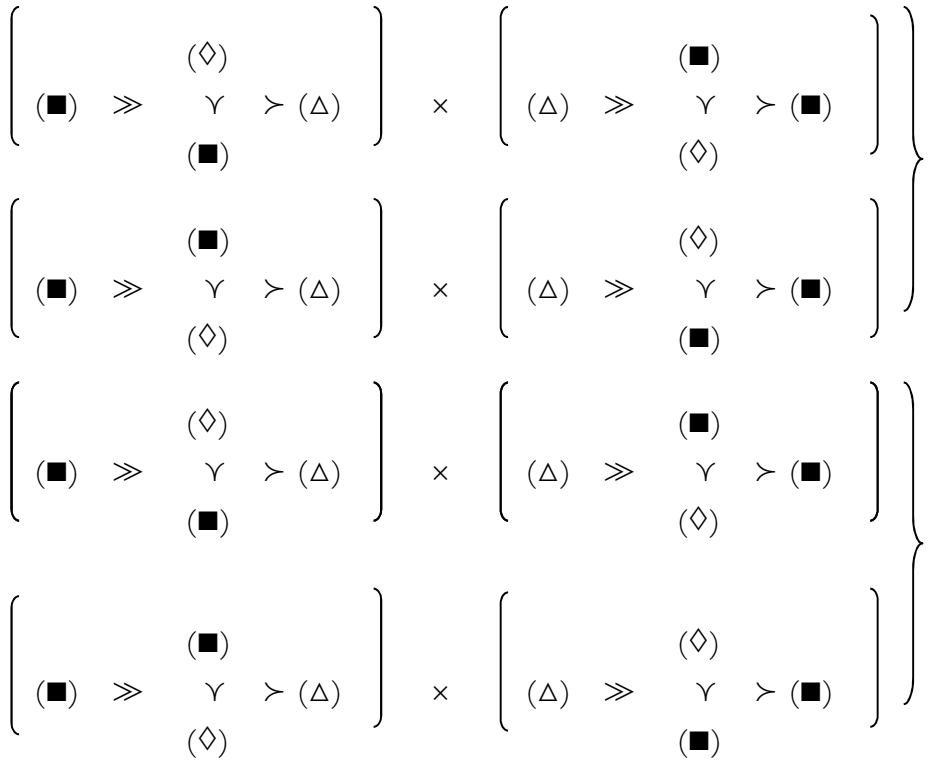
Regulativ:
O = oO

Regulativ:
I = sS

Objektale Automaten (O = oO)



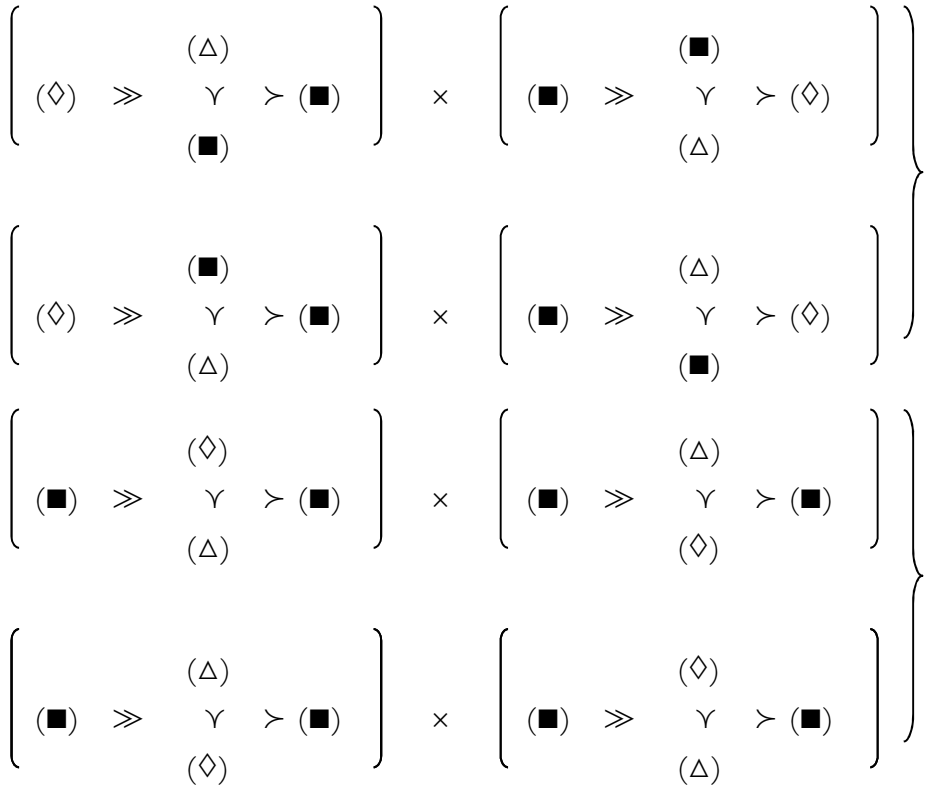
Regulativ:
Q = sO



Regulativ:
M = oS

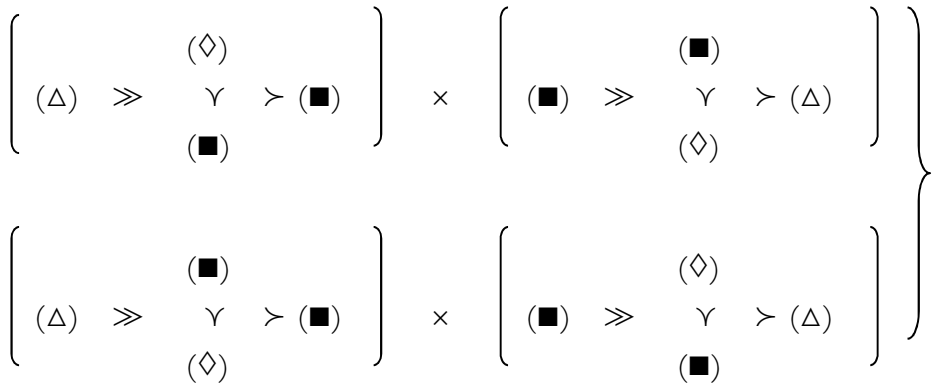
Regulativ:
I = sS

Interpretative Automaten (I = sS)



Regulativ:
Q = sO

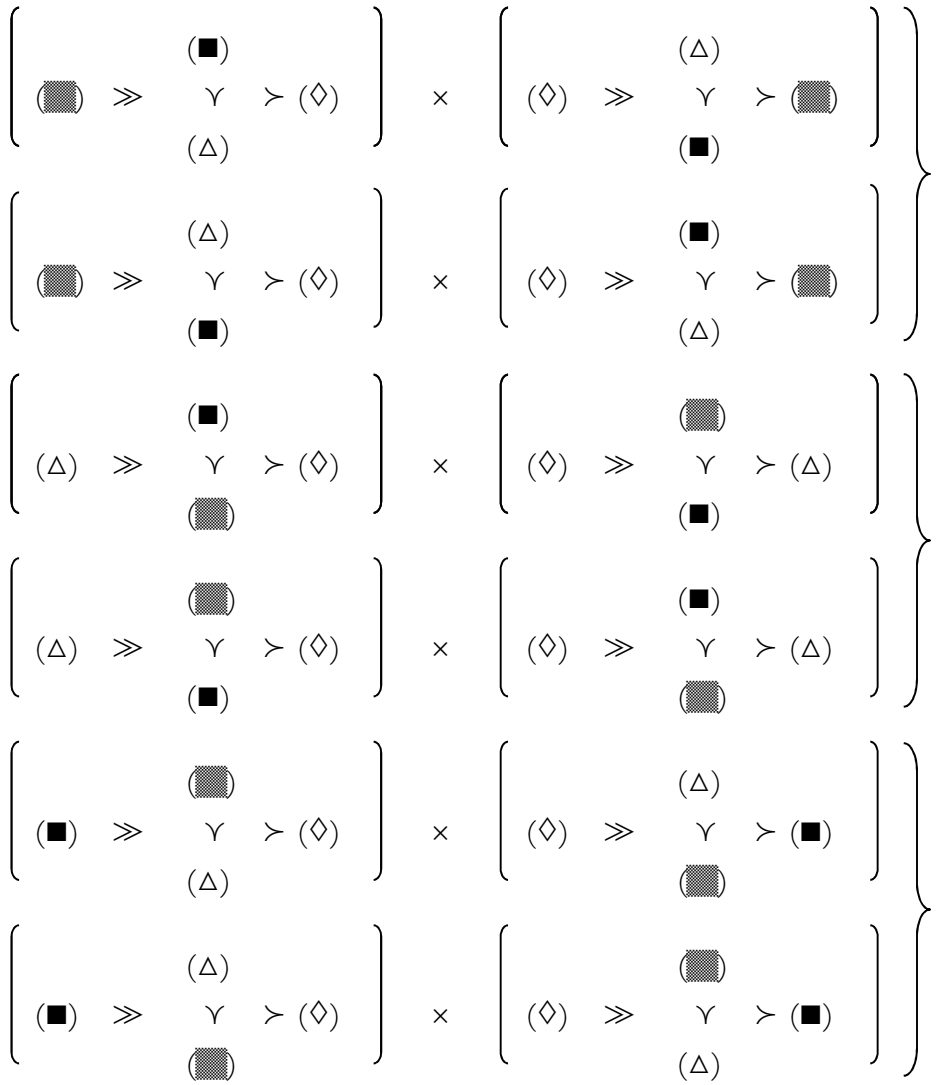
Regulativ:
M = oS



Regulativ:
O = oO

13. Präsemiotisches Dualsystem (■ △ ▩ ◊) × (◊ ▩ △ ■)

Qualitative Automaten (Q = sO)

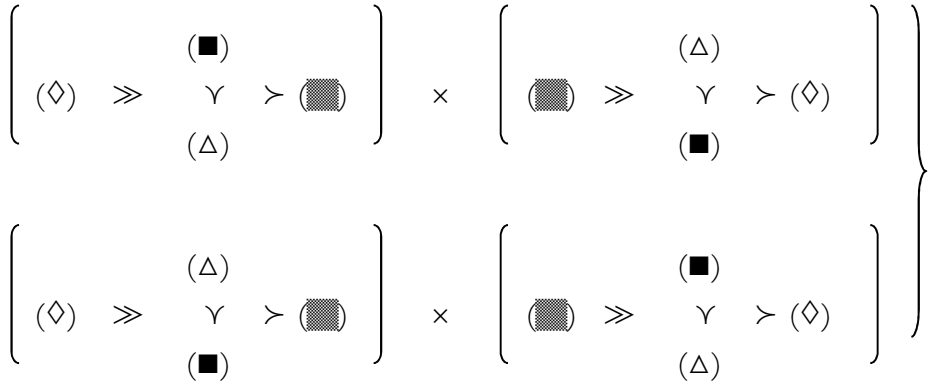


Regulativ:
M = oS

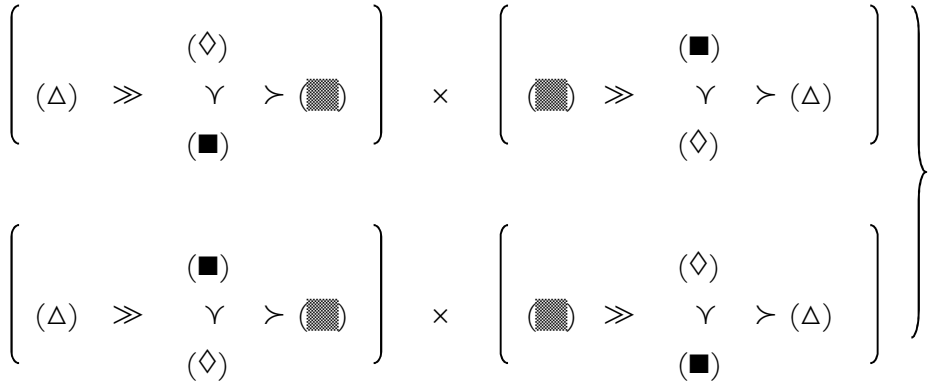
Regulativ:
O = oO

Regulativ:
I = sS

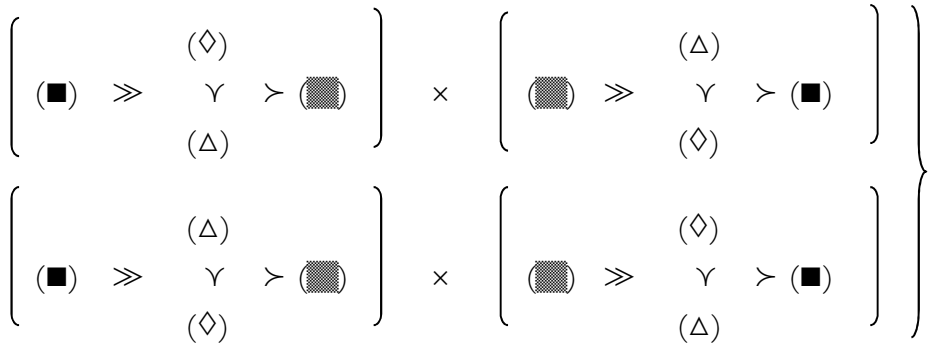
Mediale Automaten (M = oS)



Regulativ:
Q = sO

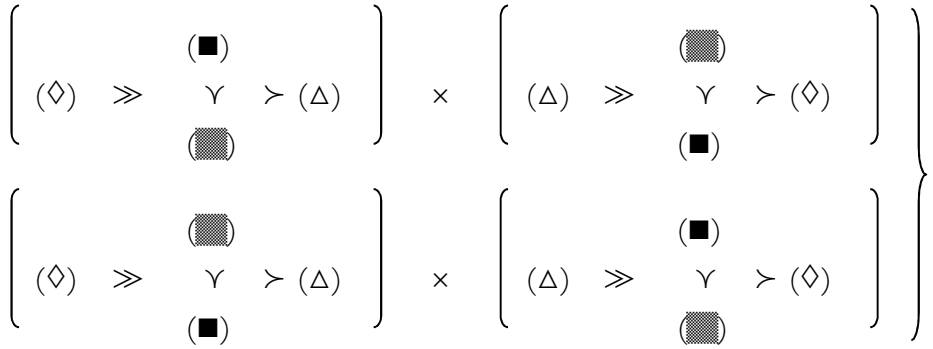


Regulativ:
O = oO

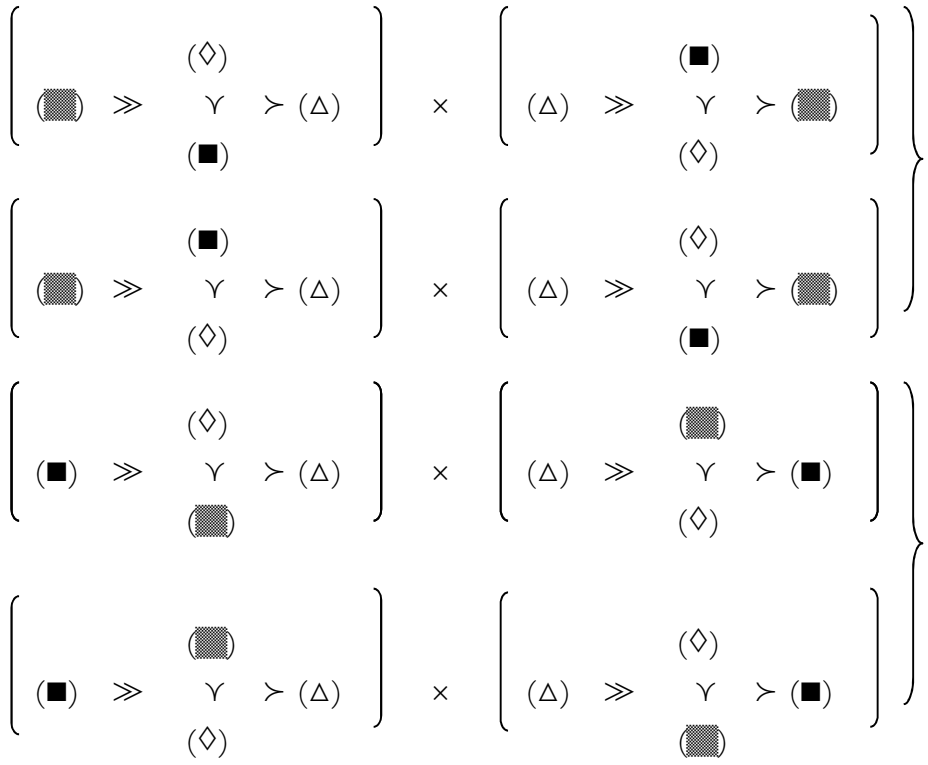


Regulativ:
I = sS

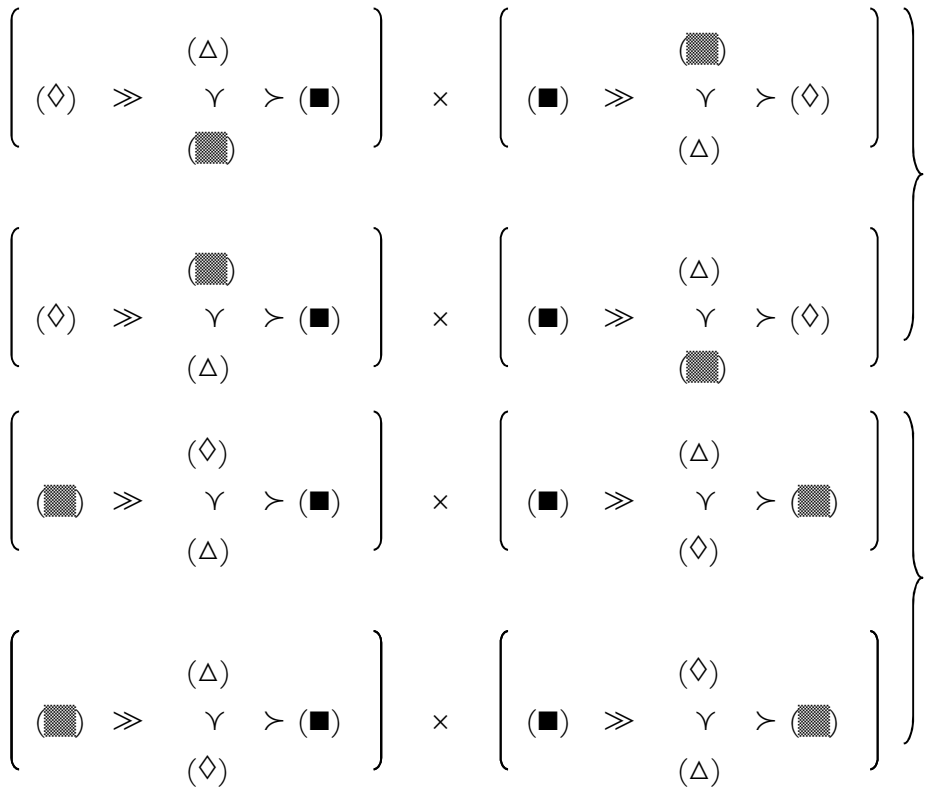
Objektale Automaten (O = oO)

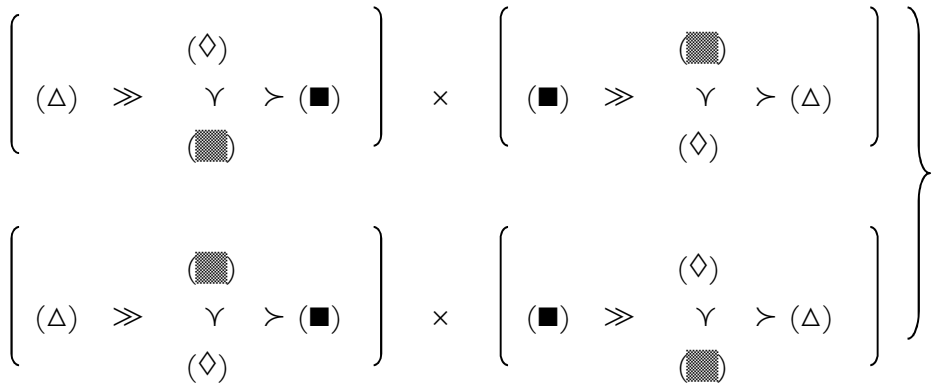


Regulativ:
Q = sO



Interpretative Automaten (I = sS)

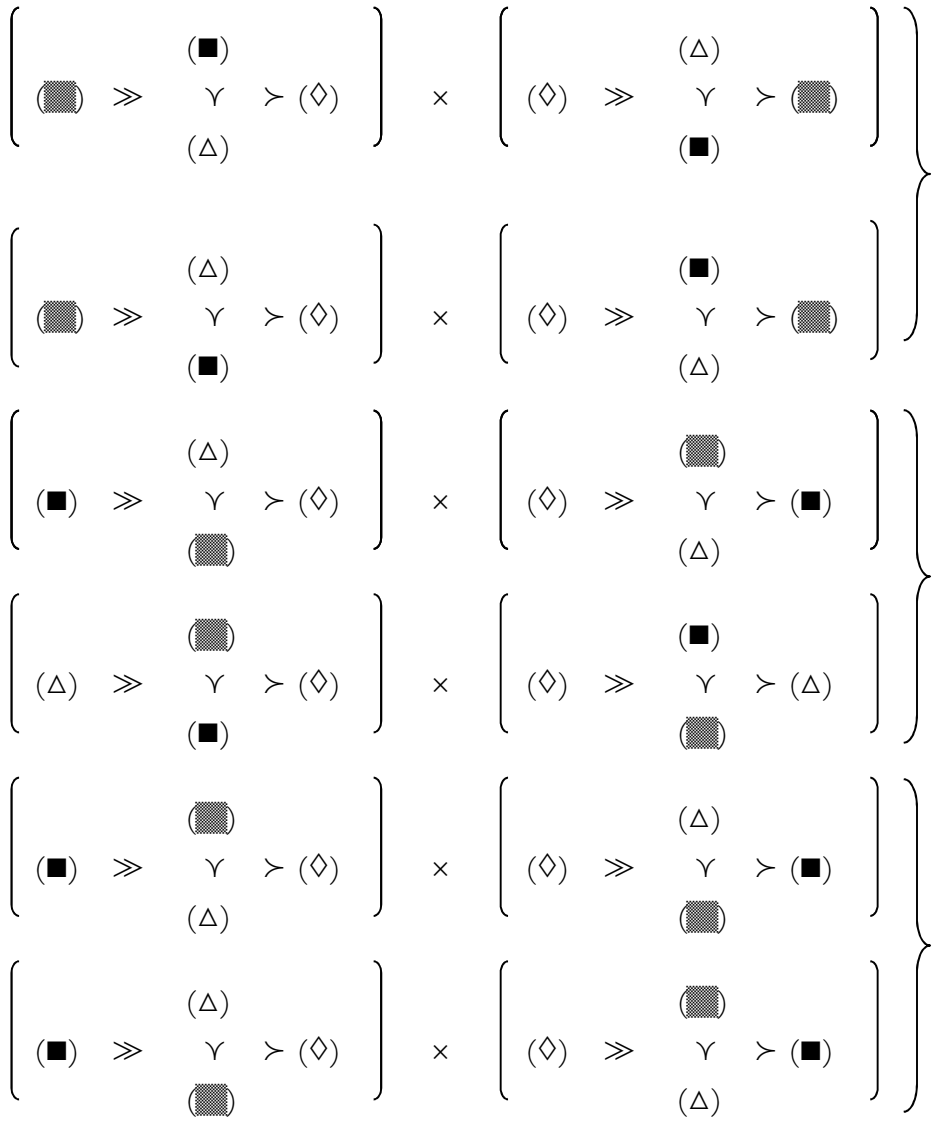




Regulativ:
O = oO

14. Präsemiotisches Dualsystem (■ △ ▩ ◊) × (◊ ▩ △ ■)

Qualitative Automaten (Q = sO)

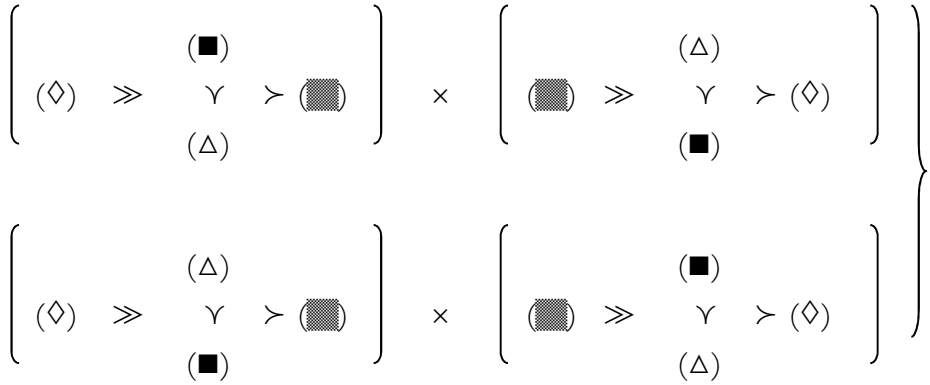


Regulativ:
M = oS

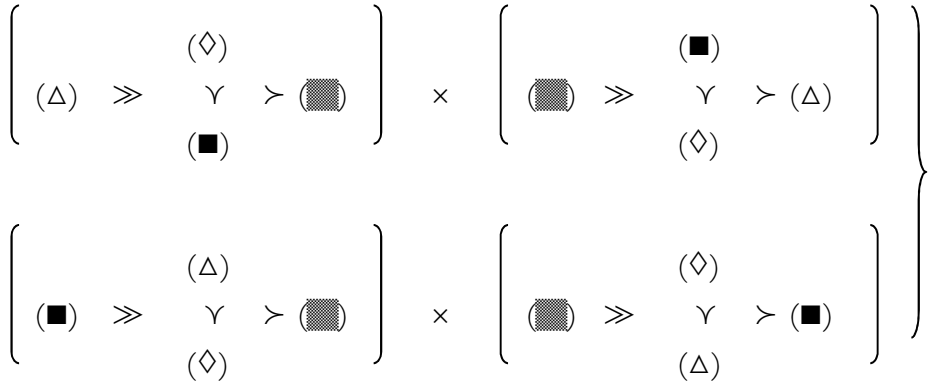
Regulativ:
O = oO

Regulativ:
I = sS

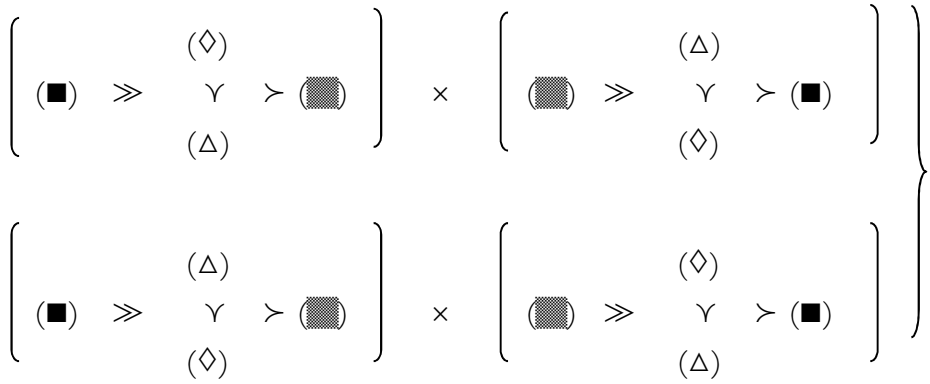
Mediale Automaten (M = oS)



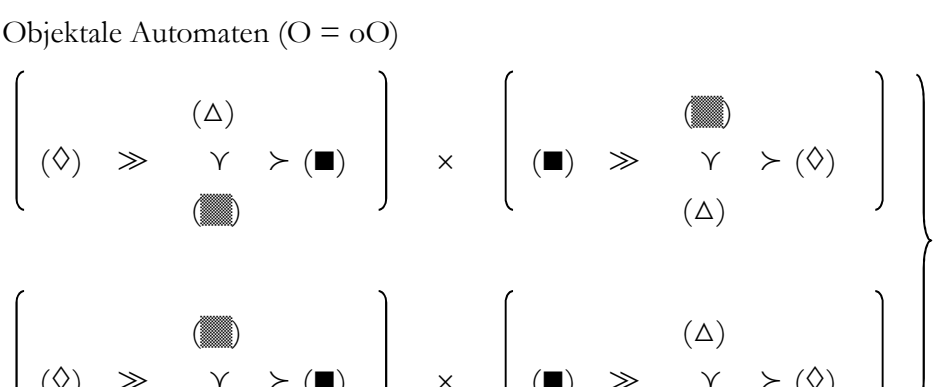
Regulativ:
Q = sO



Regulativ:
O = oO

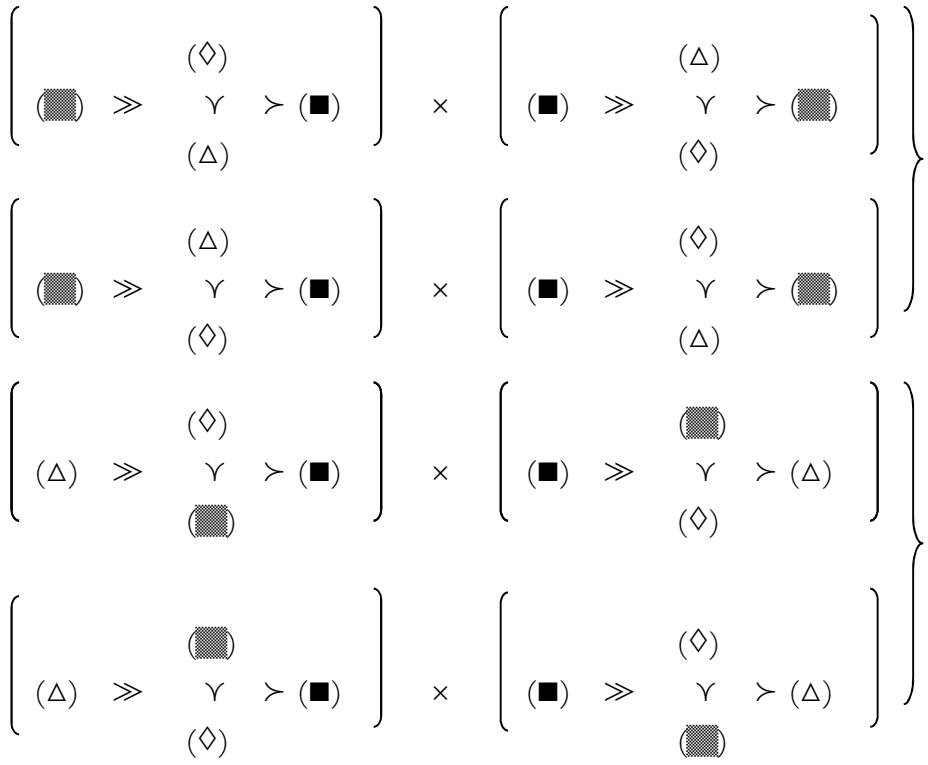


Regulativ:
I = sS

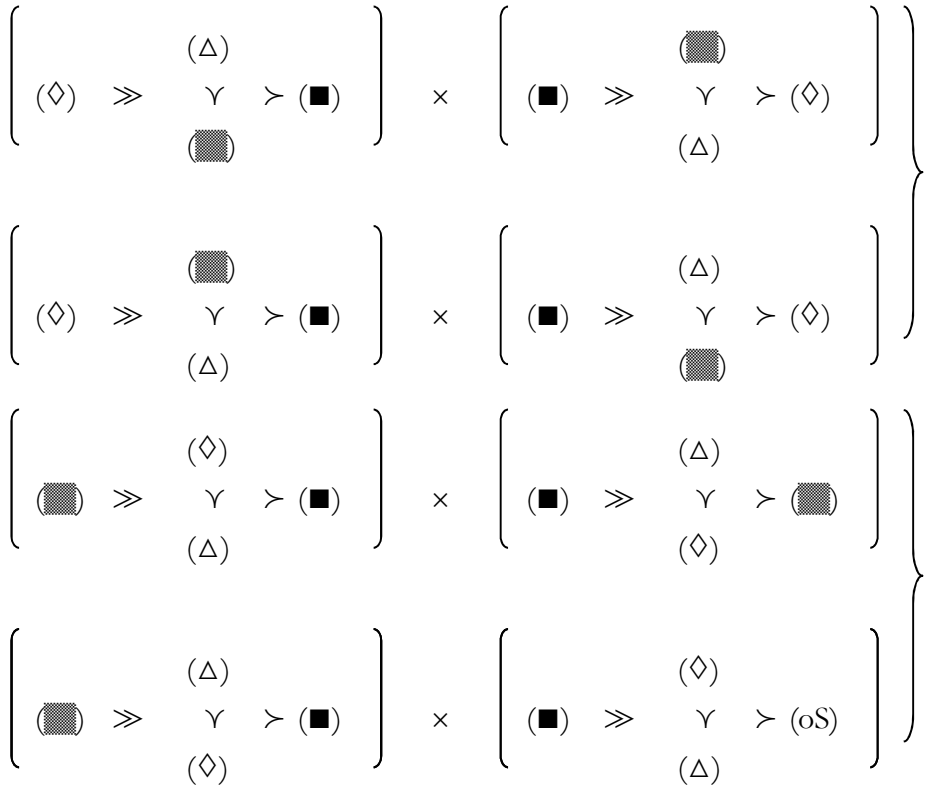


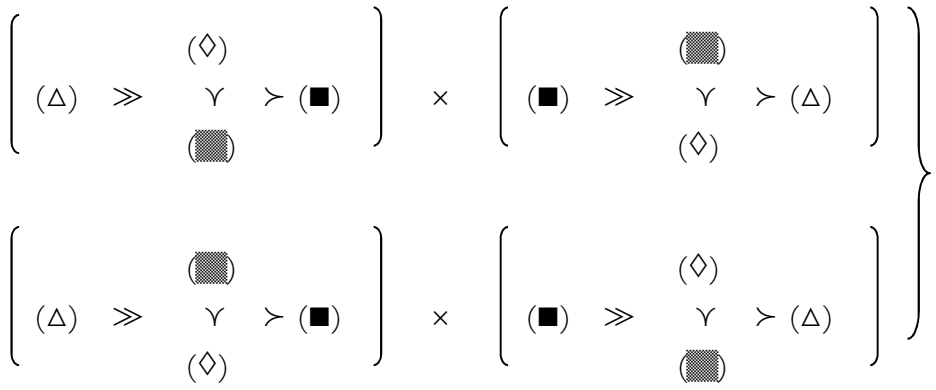
Objektale Automaten (O = oO)

Regulativ:
Q = sO



Interpretative Automaten (I = sS)

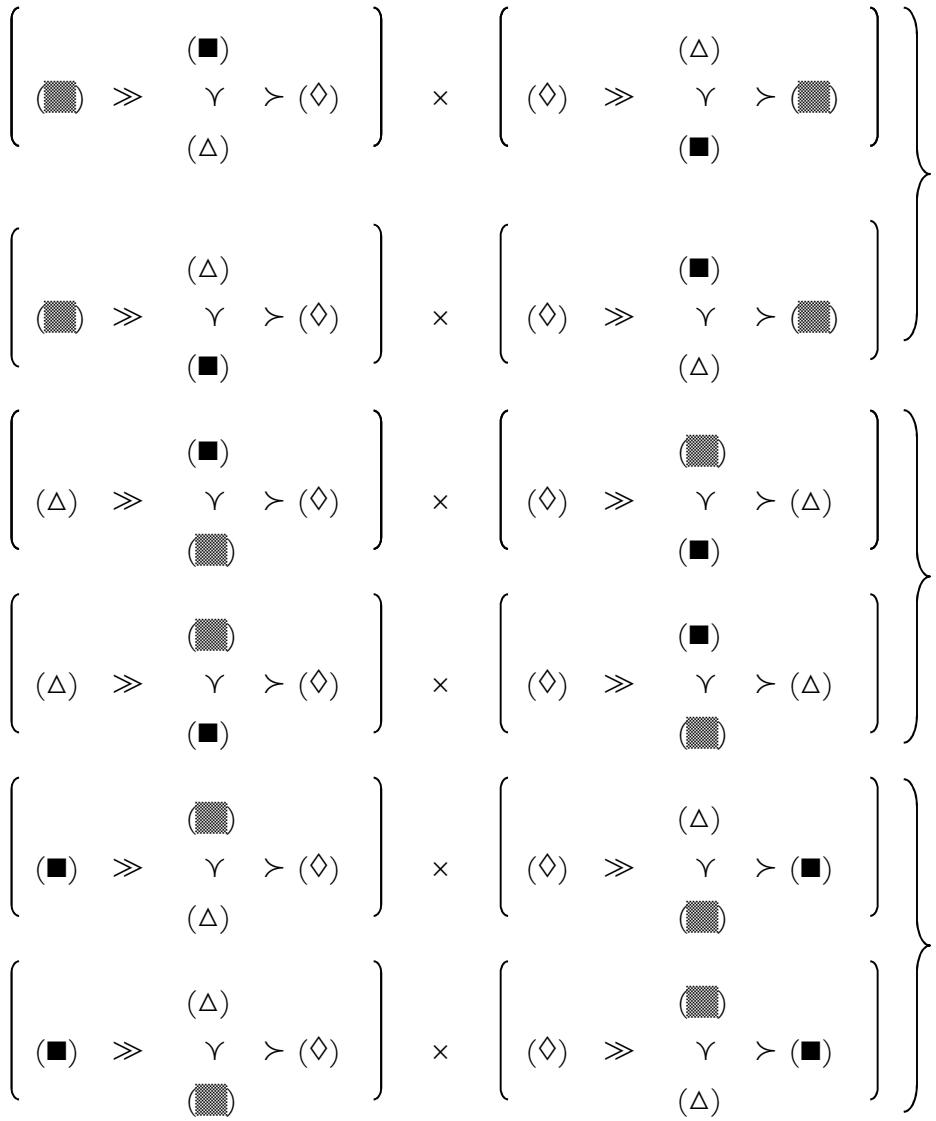




Regulativ:
O = oO

15. Präsemiotisches Dualsystem (■ △ ▩ ◊) × (◊ ▩ △ ■)

Qualitative Automaten (Q = sO)

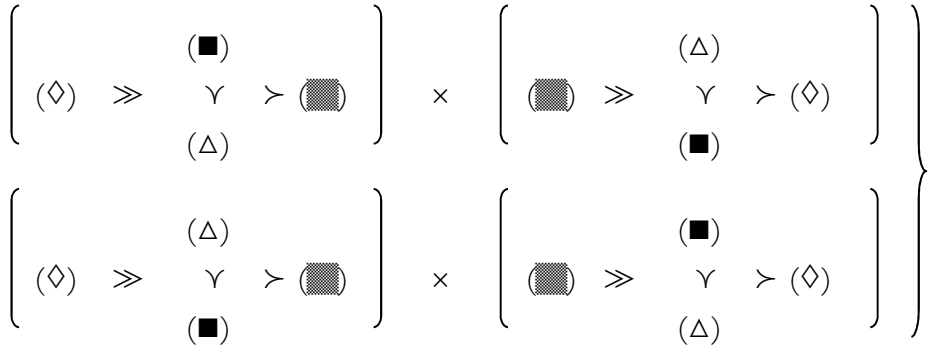


Regulativ:
M = oS

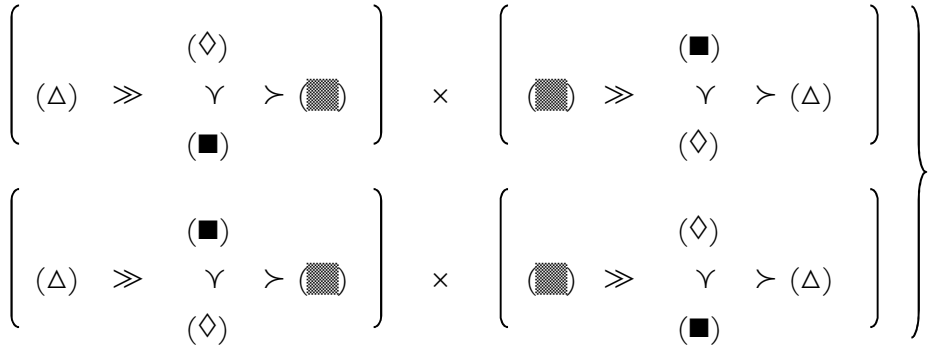
Regulativ:
O = oO

Regulativ:
I = sS

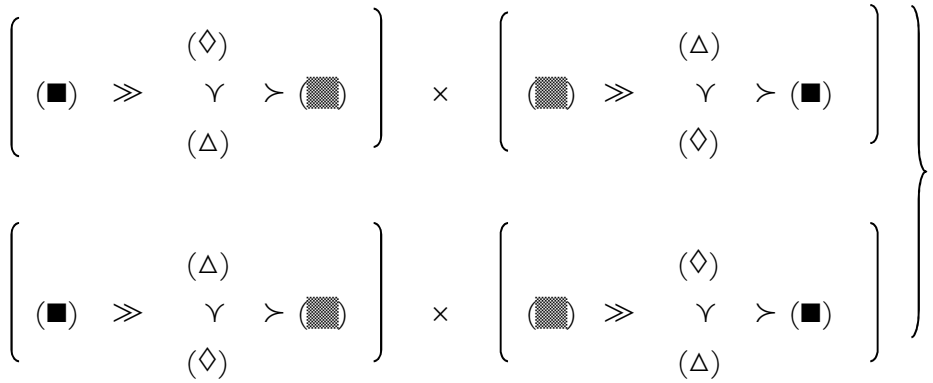
Mediale Automaten (M = oS)



Regulativ:
Q = sO

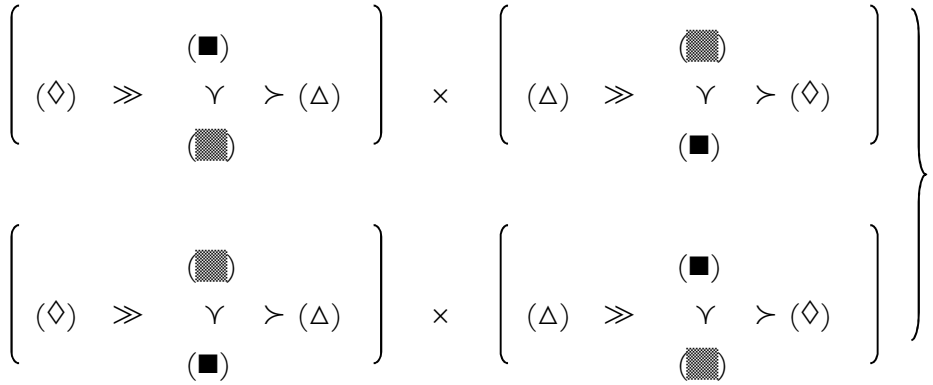


Regulativ:
O = oO

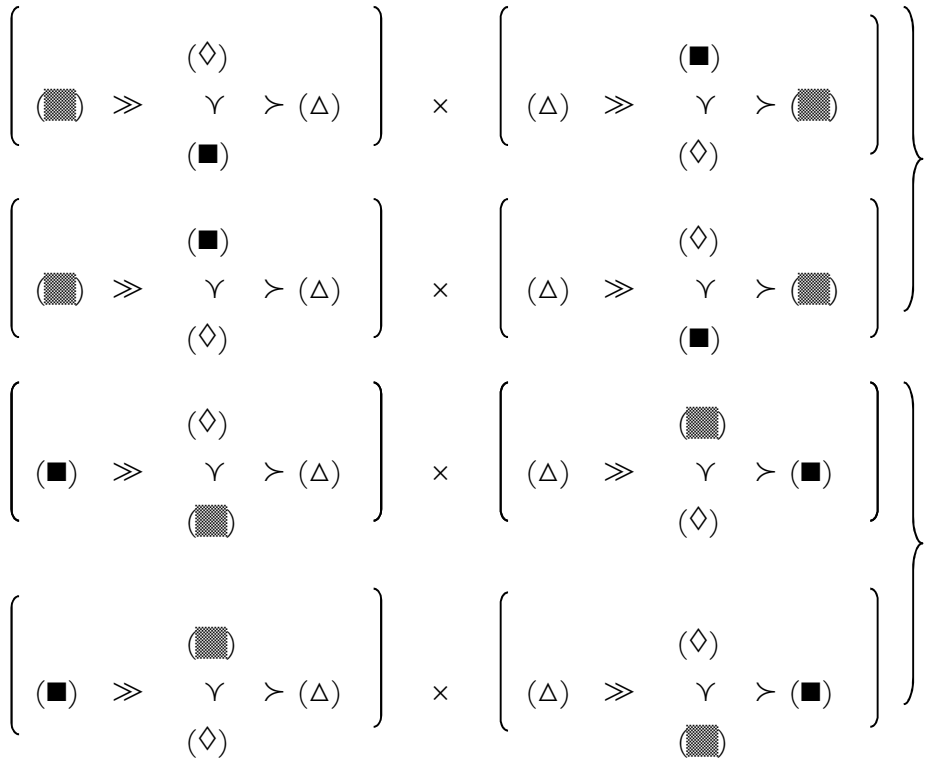


Regulativ:
I = sS

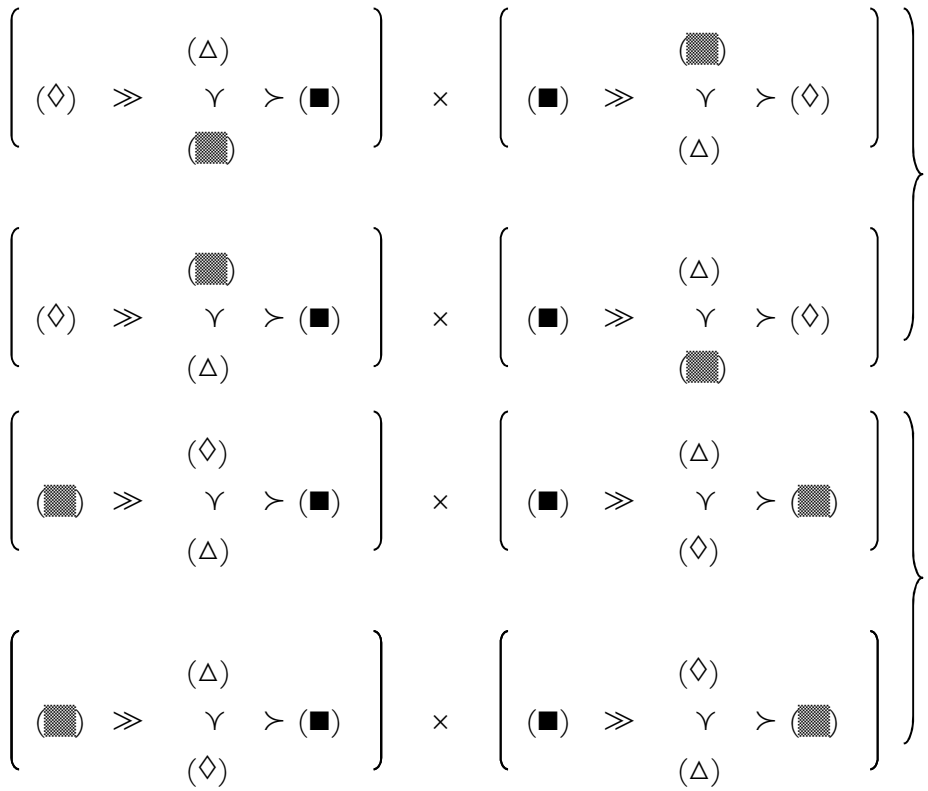
Objektale Automaten (O = oO)

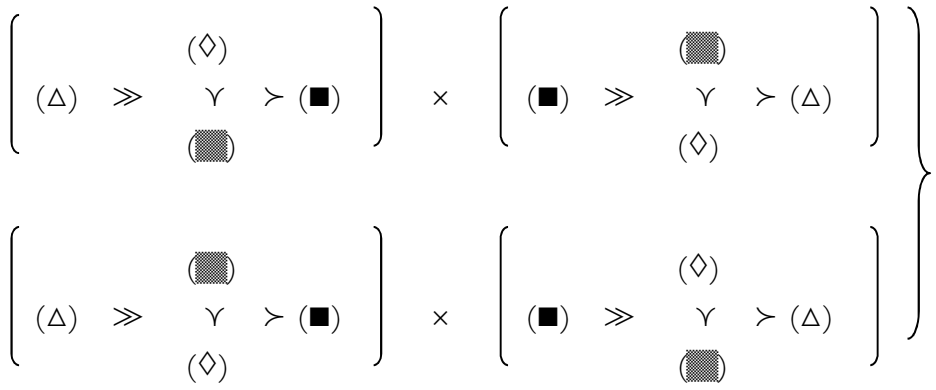


Regulativ:
Q = sO



Interpretative Automaten (I = sS)





Regulativ:
O = oO

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