## Nmatrix (level 0) in KD45

•  $\mathcal{D} = \{4,6,7\}$ 

## Subformulas

- $(\varphi_0)$  p
- $(\varphi_1)$  q
- $(\varphi_2)$   $(p \rightarrow q)$
- $(\varphi_3) \square p$
- $(\varphi_4) \Box q$
- $(\varphi_5) \square (p \rightarrow q)$
- $(\varphi_6) (\Box p \rightarrow \Box q)$
- $(\varphi_7)$   $(\Box(p \rightarrow q) \rightarrow (\Box p \rightarrow \Box q))$

| Id               | $\varphi_0$ | $\varphi_1$ | $\varphi_2$ | $\varphi_3$ | $\varphi_4$ | $\varphi_5$ | $\varphi_6$ | $\varphi_7$ |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| $\overline{(1)}$ | 0           | 0           | 7           | 0           | 0           | 7           | 7           | 7           |
| (2)              | 0           | 1           | 7           | 0           | 0           | 7           | 7           | 7           |
| (3)              | 0           | 3           | 7           | 0           | 7           | 7           | 7           | 7           |
| (4)              | 0           | 4           | 7           | 0           | 0           | 7           | 7           | 7           |
| (5)              | 0           | 6           | 7           | 0           | 0           | 7           | 7           | 7           |
| (6)              | 0           | 7           | 7           | 0           | 7           | 7           | 7           | 7           |
| (7)              | 1           | 0           | 6           | 0           | 0           | 0           | 7           | 7           |
| (8)              | 1           | 1           | 7           | 0           | 0           | 7           | 7           | 7           |
| (9)              | 1           | 1           | 6           | 0           | 0           | 0           | 7           | 7           |
| (10)             | 1           | 3           | 7           | 0           | 7           | 7           | 7           | 7           |
| (11)             | 1           | 4           | 6           | 0           | 0           | 0           | 7           | 7           |
| (12)             | 1           | 6           | 7           | 0           | 0           | 7           | 7           | 7           |
| (13)             | 1           | 6           | 6           | 0           | 0           | 0           | 7           | 7           |
| (14)             | 1           | 7           | 7           | 0           | 7           | 7           | 7           | 7           |
| (15)             | 3           | 0           | 4           | 7           | 0           | 0           | 0           | 7           |

| Id   | $\varphi_0$ | $\varphi_1$ | $\varphi_2$ | $\varphi_3$ | $\varphi_4$ | $\varphi_5$ | $\varphi_6$ | $\varphi_7$ |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| (16) | 3           | 1           | 6           | 7           | 0           | 0           | 0           | 7           |
| (17) | 3           | 3           | 7           | 7           | 7           | 7           | 7           | 7           |
| (18) | 3           | 4           | 4           | 7           | 0           | 0           | 0           | 7           |
| (19) | 3           | 6           | 6           | 7           | 0           | 0           | 0           | 7           |
| (20) | 3           | 7           | 7           | 7           | 7           | 7           | 7           | 7           |
| (21) | 4           | 0           | 3           | 0           | 0           | 7           | 7           | 7           |
| (22) | 4           | 1           | 3           | 0           | 0           | 7           | 7           | 7           |
| (23) | 4           | 3           | 3           | 0           | 7           | 7           | 7           | 7           |
| (24) | 4           | 4           | 7           | 0           | 0           | 7           | 7           | 7           |
| (25) | 4           | 6           | 7           | 0           | 0           | 7           | 7           | 7           |
| (26) | 4           | 7           | 7           | 0           | 7           | 7           | 7           | 7           |
| (27) | 6           | 0           | 1           | 0           | 0           | 0           | 7           | 7           |
| (28) | 6           | 1           | 1           | 0           | 0           | 0           | 7           | 7           |
| (29) | 6           | 1           | 3           | 0           | 0           | 7           | 7           | 7           |
| (30) | 6           | 3           | 3           | 0           | 7           | 7           | 7           | 7           |
| (31) | 6           | 4           | 6           | 0           | 0           | 0           | 7           | 7           |
| (32) | 6           | 6           | 7           | 0           | 0           | 7           | 7           | 7           |
| (33) | 6           | 6           | 6           | 0           | 0           | 0           | 7           | 7           |
| (34) | 6           | 7           | 7           | 0           | 7           | 7           | 7           | 7           |
| (35) | 7           | 0           | 0           | 7           | 0           | 0           | 0           | 7           |
| (36) | 7           | 1           | 1           | 7           | 0           | 0           | 0           | 7           |
| (37) | 7           | 3           | 3           | 7           | 7           | 7           | 7           | 7           |
| (38) | 7           | 4           | 4           | 7           | 0           | 0           | 0           | 7           |
| (39) | 7           | 6           | 6           | 7           | 0           | 0           | 0           | 7           |
| (40) | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           |