

FGI 2 [HA], 27. 1. 2014

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26. Januar 2014

13.4. 1.

$$\begin{array}{ccc}
 \partial_H(((c||d) + p)q \cdot r) & & p \cdot q \cdot (r + r) + m \mathbb{L} q \cdot r \\
 \begin{array}{c} \text{p} \left(\begin{array}{c} \downarrow \quad \downarrow \end{array} \right) \text{m} \\ \partial_H(q \cdot r) \\ \text{q} \downarrow \\ \partial_H(r) \\ \text{r} \downarrow \\ \checkmark \end{array} & & \begin{array}{c} \text{p} \left(\begin{array}{c} \downarrow \quad \downarrow \end{array} \right) \text{m} \\ q \cdot (r + r) + q \cdot r \\ \text{q} \downarrow \\ r \\ \text{r} \downarrow \\ \checkmark \end{array}
 \end{array}$$

Bisimulationsrelation:

$$\begin{array}{lcl}
 \partial_H(((c||d) + p)q \cdot r) & = & p \cdot q \cdot (r + r) + m \mathbb{L} q \cdot r \\
 \partial_H(q \cdot r) & = & q \cdot (r + r) + q \cdot r \\
 \partial_H(r) & = & r
 \end{array}$$

2.

3.