Demonstratione de independentia de propositione sequente.

I. $\exists M_0$.

II. $a \varepsilon M_0 . x \varepsilon Q_0 . \supset . x \times' a \varepsilon M_0$.

III. $\exists M_0 \sim 0 \times' M_0$.

IV. $a \varepsilon M_0 . \supset . 1 \times' a = a$.

V. $a \varepsilon M_0 \sim 0 \times' M_0 . \supset : x \varepsilon Q_0 . x \times' a = a . \supset_x . x = 1$.

VI. $a \varepsilon M_0 . x, y \varepsilon Q_0 . \supset . x \times' (y \times' a) = (x \times y) \times' a$.

1. Me pone $M_0 = \Lambda$, tunc es satisfacto omni propositione excepto I.

2. Me pone $M_0 = N_0$ et $\times' = \times$, tunc es satisfacto omni propositione excepto II.

3. Me pone $M_0 = \iota 0$ et $\times' = \times$, tunc es satisfacto omni propositione excepto III. (in particulare propositione V que exprime proprietate de classe vacuo).

4. Me pone $M_0 = Q_0 \cup \iota \infty$ et defini operatione $\times'$ in isto modo:

$$a, x \varepsilon Q_0 . \supset_{a,x} . x \times' a = x \times a . \quad Df.$$

$$x \varepsilon Q_0 . \supset_x . x \times' \infty = x . \quad Df.;$$

tunc es satisfacto omni propositione excepto IV.

5. Me pone $M_0 = \iota 0 \cup \iota 1$ et defini operatione $\times'$ in isto modo:

$$a \varepsilon M_0 . \supset_a . 0 \times' a = 0 . \quad Df.$$

$$x \varepsilon Q . \supset_x . x \times' 0 = 0 . \quad Df.$$

$$x \varepsilon Q . \supset_x . x \times' 1 = 1 \quad Df. ;$$

tunc es satisfacto omni propositione excepto V.

6. Me pone $M_0 = \iota 0 \cup \iota 1 \cup \iota 2$ et defini $\times'$ in isto modo:

$$a \varepsilon M_0 . \supset_a . 0 \times' a = 0 . \quad Df.$$

$$x \varepsilon Q . \supset_x . x \times' 0 = 0 . \quad Df.$$

$$1 \times' 1 = 1 . \quad Df.$$

$$x \varepsilon Q \sim \iota 1 . \supset_x . x \times' 1 = 2 . \quad Df.$$

$$1 \times' 2 = 2 . \quad Df.$$

$$x \varepsilon Q \sim \iota 1 . \supset_x . x \times' 2 = 1 . \quad Df.$$

Tunc es satisfacto omni propositione excepto VI.

Ugo Cassina