Hypothesis 4.27. [26H] We will study an order relation \leq on \mathbb{N} (not necessarily total) such that

$$\forall x \in \mathbb{N}, (0 \le x) \quad , \\ \forall x, y \in \mathbb{N}, (x < Sy) \iff (x \le y) \quad ;$$

(4.28) (4.29)

where as usual

$$x < y \doteq (x \le y) \land (x \ne y) \quad .$$