

$$<\rightarrow s \leq : \forall \{m \ n : \mathbb{N}\} \rightarrow m < n \rightarrow \text{suc } m \leq n$$

$$<\rightarrow s \leq (z < s) = s \leq s \ z \leq n$$

$$<\rightarrow s \leq (s < s \ m < n) = s \leq s \ (<\rightarrow s \leq \ m < n)$$

$$<\rightarrow \leq : \forall \{m \ n : \mathbb{N}\} \rightarrow m < n \rightarrow m \leq n$$

$$<\rightarrow \leq \ m < n = \leq\text{-trans } n \leq \text{suc-}n \ (<\rightarrow s \leq \ m < n)$$