

$$\triangleleft^f \mathbb{N} = \frac{A \subset \mathbb{N}}{\#A < \infty} \text{ abz}$$

$$\bigwedge_k^{\mathbb{N}} \triangleleft^k \mathbb{N} = \frac{A \subset \mathbb{N}}{\#A = k}$$

$$\{n_1 < \dots < n_k\} \in \triangleleft^k \mathbb{N} \xrightarrow{\text{inj}} \triangleleft^k \mathbb{N} \ni n_1 | \dots | n_k$$

$$\triangleleft^k \mathbb{N} \text{ abz} \Rightarrow \triangleleft^k \mathbb{N} \text{ abz} \Rightarrow \triangleleft^f \mathbb{N} = \bigcup_k^{\mathbb{N}} \triangleleft^k \mathbb{N} \text{ abz}$$