

ZFC

共尾

层空谱系



ZFC 公理系统. (Zermelo - Fraenkel)

Check on the Internet!

共尾 (Continuity)

$$cf(r) = \min \{ \text{type}(x) \mid X \subseteq r \wedge \sup(x) = r \}$$

$$\kappa^\lambda = \begin{cases} \lambda^+ & , \quad \kappa \leq \lambda \\ \kappa^+ & cf(\kappa) \leq \lambda < \kappa \\ \kappa & , \quad \kappa < cf(\kappa) \end{cases}$$

层空语系.

$$V = \{x \mid x=x\} \quad WF = \bigcup_{\alpha \in On} V_\alpha \quad [V_\alpha = \{\phi, \{\phi\}, \{\{\phi\}\}, \dots\}]$$

$$\text{rank}(x) = \min \{\alpha \mid x \in V_{\alpha+1}\}$$

在 ZF⁻ 中, 以下等价

- (1) 正则公理
- (2) \forall 集合, \in 有序
- (3) $V = WF$