

$\mathbb{1}$ voll

$$\mathbb{K}_0 \triangleleft \mathbb{1} \supset \mathcal{F} \text{ ptw bes } \bigwedge_{\mathbb{1}} \overset{\mathcal{F}}{\Upsilon} \overline{\mathbb{1}} < \infty \xrightarrow{\text{UBP}} \mathcal{F} \text{ glm bes } \overset{\mathcal{F}}{\Upsilon} \overline{\mathbb{1}} < \infty$$

$$\mathfrak{U}_n = \frac{\mathbb{1} \in \mathbb{1}}{\bigwedge_{\mathbb{1}} \overline{\mathbb{1}} \leq n} = \bigcap_{\mathbb{1}} \frac{\mathbb{1} \in \mathbb{1}}{\overline{\mathbb{1}} \leq n} \subset \mathbb{1} \text{ voll}$$

$$\mathcal{F} \text{ ptw bes } \Rightarrow \mathbb{1} = \frac{\mathbb{1} \in \mathbb{1}}{\overset{\mathcal{F}}{\Upsilon} \overline{\mathbb{1}} < \infty} = \bigcup_n \frac{\mathbb{1} \in \mathbb{1}}{\overset{\mathcal{F}}{\Upsilon} \overline{\mathbb{1}} \leq n} = \bigcup_n \mathfrak{U}_n \quad \text{Baire} \quad \bigcap_n \mathfrak{U}_n \neq \emptyset \Rightarrow \bigvee_{\mathbb{1}} \bigvee_r \mathbb{1}_{\leq r}^{\mathbb{1}} \subset \mathfrak{U}_n$$

$$\Rightarrow \mathbb{1}_{\leq r} \subset \mathbb{1}_{\leq r}^{\mathbb{1}} - \mathbb{1}_{\leq r}^{\mathbb{1}} \subset \mathfrak{U}_n - \mathfrak{U}_n \Rightarrow \bigwedge_{\mathbb{1}} \overline{\mathbb{1}}_{\leq r} \leq 2n \Rightarrow \overline{\mathbb{1}} \leq 2n/r$$