

$$\mathbb{R} \xleftarrow[\text{stet lin}]{\mathfrak{k}} \mathfrak{h}_{\Delta_m}^{2;q} \mathbb{R} \Rightarrow \begin{cases} \mathbb{K}_{\Delta_m}^p \mathfrak{h} \ni \mathfrak{k} = \int_{\mu}^{\mathfrak{h}} \frac{\mathfrak{k}\chi}{\mu} \\ \mathfrak{h}_{\Delta_m}^p \mathbb{K} \ni \mathfrak{k}\chi/\mu = \overline{\mathfrak{k}\chi/\mu}^+ - \overline{\mathfrak{k}\chi/\mu}^- \end{cases} \begin{cases} \bigvee_{\text{eind}} \gamma \in \mathfrak{h}_{\Delta_m}^p \mathbb{R} \\ \mathfrak{k}\gamma = \gamma \overset{\oplus}{\star} \gamma = \int_{\mu}^{\mathfrak{h}} \gamma \gamma \end{cases}$$

$$\mathfrak{h} = \bigcup_i \mathfrak{k} : \mu_{\mathfrak{k}} < \infty \xrightarrow[\text{meas}]{\text{fin real}} \underbrace{\mathfrak{k}\chi^{\mathfrak{k}}}_M := \mathfrak{k}\chi^{M \cap \mathfrak{k}} \Rightarrow \mathfrak{k}\chi^{\mathfrak{k}} = \overline{\mathfrak{k}\chi^{\mathfrak{k}}}^+ - \overline{\mathfrak{k}\chi^{\mathfrak{k}}}^- \Rightarrow \overline{\mathfrak{k}\chi^{\mathfrak{k}}}^{\pm} \ll \mu$$

$$\xrightarrow{\text{RN}} \bigvee \mathfrak{k} \xrightarrow[\text{mb}]{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu} \mathbb{R}_+ \int_{\mu}^{\mathfrak{h}} \frac{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}}{\mu} = \overline{\mathfrak{k}\chi^{\mathfrak{k}}}_{\mathfrak{k}} = \underbrace{\mathfrak{k}\chi^{\mathfrak{k}}}_{\mathfrak{k}^{\pm}} = \mathfrak{k}\chi^{\mathfrak{k}^{\pm}} < \infty \Rightarrow \overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu < \infty$$

$$\xrightarrow{\mu \text{ int}} \begin{cases} \bigvee \mathfrak{h} \xrightarrow[\text{mb}]{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu} \mathbb{R}_+ \\ \underbrace{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu}_{\mathfrak{k}} = \overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu \end{cases} \mathfrak{h} \xrightarrow[\text{mb}]{\mathfrak{k}\chi^{\mathfrak{k}}/\mu = \overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu - \overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu} \mathbb{R}$$

$$\mathfrak{h} \xrightarrow[\text{simple part-fin}]{1 = \sum_j a_j \chi^{M_j}} \mathbb{R} : \text{Trg } 1 \subset \bigcup \mathfrak{k} \Rightarrow \mathfrak{k}1 = \int_{\mu}^{\mathfrak{h}} 1 \mathfrak{k}\chi/\mu$$

$$\mathfrak{k}\chi/\mu \Big|_{\bigcup \mathfrak{k}} \mu \text{ int } M \subset \bigcup \mathfrak{k} \Rightarrow \mathfrak{k}\chi^M = \sum_{\mathfrak{k}} \mathfrak{k}\chi^{M \cap \mathfrak{k}} = \sum_{\mathfrak{k}} \underbrace{\mathfrak{k}\chi^{\mathfrak{k}}}_M = \sum_{\mathfrak{k}} \overline{\mathfrak{k}\chi^{\mathfrak{k}}}_M - \overline{\mathfrak{k}\chi^{\mathfrak{k}}}_M$$

$$= \sum_{\mathfrak{k}} \int_{\mu}^M \overline{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu}^+ - \overline{\overline{\mathfrak{k}\chi^{\mathfrak{k}}}/\mu}^- = \int_{\mu}^{\mathfrak{h}} \chi^M \overline{\mathfrak{k}\chi/\mu}^+ - \overline{\mathfrak{k}\chi/\mu}^- = \int_{\mu}^{\mathfrak{h}} \chi^M \mathfrak{k}\chi/\mu$$

$$\mathfrak{k}\chi/\mu \in \mathfrak{h}_{\Delta_m}^p \mathbb{R}$$

$$\bigvee 0 \leq \mathfrak{1}_n \nearrow \overline{\mathfrak{k}\chi/\mu} \Rightarrow \overline{\mathfrak{1}_n} \overline{\overline{\mathfrak{k}\chi/\mu} \mathfrak{1}_n^{p/q}} \stackrel{\text{LEM}}{\leq} \overline{\mathfrak{k}\chi/\mu} \nearrow \overline{\overline{\mathfrak{k}\chi/\mu} \mathfrak{1}_n^{p/q}}$$

$$= \mathfrak{k} \overline{\overline{\mathfrak{k}\chi/\mu} \mathfrak{1}_n^{p/q}} \leq \overline{\mathfrak{k}} \overline{\overline{\mathfrak{k}\chi/\mu} \mathfrak{1}_n^{p/q}} \xrightarrow{\text{divide}} \overline{\mathfrak{k}} \geq \overline{\mathfrak{1}_n} \xrightarrow{\text{MCT}} \overline{\mathfrak{k}\chi/\mu} \leq \overline{\mathfrak{k}}$$

$$\mathfrak{k}\gamma = \overline{\mathfrak{k}\chi/\mu} \overset{\oplus}{\star} \gamma = \int_{\mu}^{\mathfrak{h}} \mathfrak{k}\chi/\mu \gamma$$

$$\mathfrak{k} \text{ on hull subspace} = \overline{\mathfrak{k}\chi/\mu} \overset{\infty}{\star} \Rightarrow \text{beide Seiten stet} \quad \mathfrak{k} = \overline{\mathfrak{k}\chi/\mu} \overset{\infty}{\star}$$