

$$\mathcal{G} = \frac{\bigwedge^{\mathfrak{h}} \mathbb{R}_+^m}{\bigwedge^M \int_M \gamma \leq \nu_M} \ni 0$$

$$\gamma \in \mathcal{G} \Rightarrow \gamma \gamma \gamma \in \mathcal{G}$$

$$E = \frac{\hbar \in \mathfrak{h}}{\hbar \gamma \geq \hbar \gamma} \Rightarrow \bigwedge^M \int_M \gamma \gamma \gamma = \int_{\mu}^{M \cap E} \gamma \gamma \gamma + \int_{\mu}^{M \sqcup E} \gamma \gamma \gamma = \int_{\mu}^{M \cap E} \gamma + \int_{\mu}^{M \sqcup E} \gamma \leq \nu_{M \cap E} + \nu_{M \sqcup E} = \nu_M$$

$$\gamma = \bigvee_{\gamma \in \mathcal{G}} \int_{\mu}^{\hbar} \gamma \leq \nu_{\hbar} \Rightarrow \bigvee_{\gamma_n \in \mathcal{G}} \int_{\mu}^{\hbar} \gamma_n \leadsto \gamma \Rightarrow \tilde{\gamma}_n := \bigvee_i^n \gamma_i \nearrow \frac{\nu}{\mu} \in \mathfrak{h} \Delta_m \bar{\mathbb{R}}_+$$

$$\mathcal{G} \ni \bigvee_i^n \gamma_i \Rightarrow \nu_M \geq \int_{\mu}^M \bigvee_i^n \gamma_i \xrightarrow{\text{MCT}} \int_{\mu}^M \frac{\nu}{\mu} \leq \nu_M \Rightarrow \frac{\nu}{\mu} \in \mathcal{G}$$

$$\gamma \nwarrow \int_{\mu}^{\hbar} \bigvee_i^n \gamma_i \nearrow \int_{\mu}^{\hbar} \frac{\nu}{\mu} \Rightarrow \int_{\mu}^{\hbar} \frac{\nu}{\mu} = \gamma$$

$$\int_{\mu}^M \frac{\nu}{\mu} = \nu_M$$

$$\nexists \bigvee_{M \in \mathcal{M}} \int_{\mu}^M \frac{\nu}{\mu} < \nu_M \Rightarrow \gamma = \int_{\mu}^{\mathbb{H}} \frac{\nu}{\mu} = \int_{\mu}^M \frac{\nu}{\mu} + \int_{\mu}^{\mathbb{H} \setminus M} \frac{\nu}{\mu} < \nu_M + \nu_{\mathbb{H} \setminus M} = \nu_{\mathbb{H}} = \bigvee_{\mu_F < \infty} \nu_F \Rightarrow \bigvee_{F \in \mathcal{M}} \nu_F > \gamma = \int_{\mu}^{\mathbb{H}} \frac{\nu}{\mu} \geq \int_{\mu}^F \frac{\nu}{\mu}$$

$$a := \bigvee_{M \subseteq F}^{\nu_M < \infty} \mu_M \leq \mu_F < \infty \Rightarrow \bigvee_{M_i \subseteq F}^{\text{folg}} \nu_{M_i} < \infty \Rightarrow \mu_{M_i} \rightsquigarrow a$$

$$M^j = \bigcup_i^j M_i \subseteq F \Rightarrow \nu_{M^j} \leq \sum_i^j \nu_{M_i} < \infty \Rightarrow \mu_{M^j} \nearrow a \Rightarrow E := \bigcup_j M^j \subseteq F \Rightarrow \mu_E = a$$

$$\bigwedge_{N \subseteq F \sqcup E} \nu_N < \infty \Rightarrow \nu_{N \cup M^j} < \infty \Rightarrow \infty > a \geq \mu_{N \cup M^j} = \mu_N + \mu_{M^j} \nearrow \mu_N + a \Rightarrow \mu_N = 0$$

$$\bigvee_{\beta > 0} \gamma + \beta a < \nu_F = \nu_E + \nu_{F \sqcup E}$$

$$\nu_{M^j} \nearrow \nu_E \Rightarrow \bigvee_j \gamma + \beta a < \nu_{M^j} + \nu_{F \sqcup E}$$

$$\text{sei } P \subseteq M^j \text{ mit } \bigwedge_M \int_{\mu}^{M \cap P} \frac{\nu}{\mu} + \beta \mu_{M \cap P} \leq \nu_{M \cap P}$$

$$\Rightarrow \int_{\mu}^M \frac{\nu}{\mu} + \beta_P + \infty_{F \sqcup E} = \int_{\mu}^M \frac{\nu}{\mu}_{\mathbb{H} \setminus (F \sqcup E)} + \beta_P + \infty_{F \sqcup E} = \int_{\mu}^{M \setminus P} \frac{\nu}{\mu}_{\mathbb{H} \setminus (F \sqcup E)} + \int_{\mu}^{M \cap P} \frac{\nu}{\mu}$$

$$+ \beta \mu_{M \cap P} + \infty \mu_{M \cap (F \sqcup E)} \leq \nu_{(M \setminus P) \sqcup (F \sqcup E)} + \nu_{M \cap P} + \infty \mu_{M \cap (F \sqcup E)} \leq \nu_{M \setminus (F \sqcup E)} + \nu_{M \cap (F \sqcup E)} = \nu_M$$

$$\Rightarrow \int_{\mu}^{\mathbb{H}} \frac{\nu}{\mu} + \beta_P + \infty_{F \sqcup E} \in \mathcal{G} \Rightarrow \infty > \gamma \geq \int_{\mu}^{\mathbb{H}} \frac{\nu}{\mu} + \beta_P + \infty_{F \sqcup E} = \gamma + \beta \mu_P + \infty \mu_{F \sqcup E}$$

$$\Rightarrow \mu_P = 0 = \mu_{F \sqcup E} \Rightarrow \nu_P = 0 = \nu_{F \sqcup E} \Rightarrow \int_{\mu}^P \frac{\nu}{\mu} + \beta_P \geq \nu_P \xrightarrow{\text{LEM}} \int_{\mu}^{M^j} \frac{\nu}{\mu} + \beta \mu_{M^j} \geq \nu_{M^j}$$

$$\Rightarrow \gamma + \beta a \geq \int_{\mu}^{M^j} \frac{\nu}{\mu} + \beta \mu_{M^j} \geq \nu_{M^j} = \nu_{M^j} + \nu_{F \sqcup E} > \gamma + \beta a$$