

$\mathfrak{h}$  comp

$$\text{treu } \mathbb{1} \subset \mathfrak{h} \triangleleft_0 \mathbb{R}$$

$$\gamma \in \mathbb{1} \Rightarrow \underline{\gamma} = \frac{\gamma}{\overline{\gamma}} \in \mathbb{1}^1$$

$$\gamma \in {}^0\mathbb{1} \Rightarrow \underline{\gamma} \in {}^0\mathbb{1}^1$$

$$\bigwedge^B_{o \in U_o \subset \mathbb{H} \setminus A} \bigvee_{\gamma_o}^{0\mathbb{1}^1} \left\{ \begin{array}{l} \overline{1 - \gamma_o}^{k^n} \rightsquigarrow 0 \\ \overline{1 - \gamma_o}^{k^n} \rightsquigarrow 1 \end{array} \right.$$

$$\bigwedge^A_{\mathfrak{h}} \bigvee^{\mathbb{1}}_{\mathfrak{h}^1} \mathfrak{h} \gamma \neq \mathfrak{o} \gamma \Rightarrow \underbrace{\mathfrak{h} \gamma - \mathfrak{o} \gamma}_{\mathfrak{h}^2} \in 0\mathbb{1}^1$$

$$\mathfrak{h} \in \frac{\mathfrak{h}}{\mathfrak{h} \gamma \neq \mathfrak{o} \gamma} \subset \mathfrak{h} \supset A \subset \bigcup_{\mathfrak{h}}^A \frac{\mathfrak{h}}{\mathfrak{h} \gamma \neq \mathfrak{o} \gamma} \Rightarrow \bigvee_{A \supset \mathfrak{k} \text{ fin}} \text{cpt } A \subset \bigcup_{\mathfrak{k}}^{\mathfrak{k}} \frac{\mathfrak{h}}{\mathfrak{k} \gamma \neq \mathfrak{o} \gamma}$$

$$\gamma_o = \frac{1}{|\mathfrak{k}|} \sum_{\mathfrak{k}} \underbrace{\mathfrak{h} \gamma - \mathfrak{o} \gamma}_{\mathfrak{k}^2} \in 0\mathbb{1}^1$$

$$\bigvee_{k \geq 3}^A \gamma_o \geq \frac{1}{k-1}$$

$$\mathfrak{h} \in A \Rightarrow \bigvee_{\mathfrak{k}}^{\mathfrak{k}} \mathfrak{h} \gamma \neq \mathfrak{o} \gamma \Rightarrow \mathfrak{h} \gamma_o \geq \frac{1}{|\mathfrak{k}|} \underbrace{\mathfrak{h} \gamma - \mathfrak{o} \gamma}_{\mathfrak{k}^2} > 0 \Rightarrow A \gamma_o > 0 \xrightarrow[\text{comp}]{A} A \gamma_o > 0$$

$$0 \leq \overline{1 - \gamma_o}^{k^n} \leq \left( \frac{k-1}{k} \right)^n : \overline{1 - \gamma_o}^{k^n} \rightsquigarrow 0$$

$$\bigwedge^A_{\mathfrak{h}} 1 \leq \mathfrak{h} \gamma_o (k-1)^n = \mathfrak{h} \gamma_o k^n \left( \frac{k-1}{k} \right)^n < \underbrace{1 + \mathfrak{h} \gamma_o k^n}_{\text{Bern}} \left( \frac{k-1}{k} \right)^n \leq \overline{1 + \mathfrak{h} \gamma_o}^{k^n} \left( \frac{k-1}{k} \right)^n$$

$$0 \leq \overline{1 - \gamma_o}^{k^n} \leq \overline{1 - \mathfrak{h} \gamma_o}^{k^n} \overline{1 + \mathfrak{h} \gamma_o}^{k^n} \left( \frac{k-1}{k} \right)^n = \overline{1 - \mathfrak{h} \gamma_o}^{k^n} \left( \frac{k-1}{k} \right)^n \leq \left( \frac{k-1}{k} \right)^n$$

$$\mathbb{H} \setminus A \supset U_o = \frac{\mathfrak{h}}{(k+1) \gamma_o < 1} \ni o \Leftarrow \mathfrak{o} \gamma_o = 0$$

$$1 \geq \overline{1 - \mathfrak{h} \gamma_o}^{k^n} > 1 - \left( \frac{k}{k+1} \right)^n : \overline{1 - \gamma_o}^{k^n} \rightsquigarrow 1$$

$$\bigwedge^A_{\mathfrak{h}} \mathfrak{h} \gamma_o < \left( \frac{1}{k+1} \right)^n \Rightarrow \mathfrak{h} \gamma_o k^n < \left( \frac{k}{k+1} \right)^n \Rightarrow 1 \geq \overline{1 - \mathfrak{h} \gamma_o}^{k^n} \underset{\text{Bern}}{\geq} 1 - \mathfrak{h} \gamma_o k^n > 1 - \left( \frac{k}{k+1} \right)^n$$

$$A \cap B = \emptyset \Rightarrow \bigwedge_{\varepsilon} \bigvee_{\gamma}^{0\mathbb{1}^1} \left\{ \begin{array}{l} A\gamma \leq \varepsilon \\ B\gamma \geq 1 - \varepsilon \end{array} \right.$$

$$\text{comp } B \subset \bigcup_o^B U_o \Rightarrow \bigvee_{\text{fin } E \subset B} B \subset \bigcup_o^E U_o$$

$$\bigwedge_o^A \bigvee \left\{ \begin{array}{l} o \in U_o \subset \mathbb{H} \perp B \\ \gamma_o \in {}^0\mathbb{1}^1 \end{array} \right.$$

$$0 \leq \overbrace{1 - \gamma_o^A}^{k^n} \leq \left( \frac{k-1}{k} \right)^n \leq \frac{\varepsilon}{|E|} \Rightarrow 1 \geq \overbrace{1 - 1 - \gamma_o^A}^{k^n} \geq 1 - \frac{\varepsilon}{|E|}$$

$$1 \geq \overbrace{1 - \gamma_o^{U_o}}^{k^n} > 1 - \left( \frac{k}{k+1} \right)^n \geq 1 - \frac{\varepsilon}{|E|} \Rightarrow 0 \leq \overbrace{1 - 1 - \gamma_o^{U_o}}^{k^n} < \frac{\varepsilon}{|E|}$$

$$\prod_o^E \overbrace{1 - 1 - \gamma_o^A}^{k^n} \in {}^0\mathbb{1}^1$$

$$\prod_o^E \overbrace{1 - \gamma_o^A}^{k^n} \geq \left( 1 - \frac{\varepsilon}{|E|} \right)^{|E|} \underset{\text{Bern}}{\geq} 1 - \varepsilon$$

$$\prod_o^E \overbrace{1 - \gamma_o^{U_o}}^{k^n} < \frac{\varepsilon}{|E|} \leq \varepsilon$$

$$\bigwedge_i^m \bigvee_{\gamma_i}^{0\mathbb{1}^1} \left\{ \begin{array}{l} \gamma_i^{V_{o_i}} \leq \frac{\varepsilon}{m} \\ \gamma_i^B \geq 1 - \frac{\varepsilon}{m} \end{array} \right. \Rightarrow \gamma = \prod_i^m \gamma_i \in {}^0\mathbb{1}^1$$

$$\gamma^B \geq \left( 1 - \frac{\varepsilon}{m} \right)^m \underset{\text{Bern}}{\geq} 1 - \varepsilon$$

$$h \in A \Rightarrow h \in V_{o_i} \Rightarrow {}^h\gamma \leq {}^h\gamma_i \leq \frac{\varepsilon}{m} \leq \varepsilon$$

$$\mathbb{h} \triangleleft_{\mathbb{0}} \mathbb{R} \supset_{\text{hull}} \mathbb{1}: \quad \mathbb{h} \triangleleft_{\mathbb{0}} \mathbb{R} \ni \gamma \stackrel{\mathbb{h}}{\sim} \gamma_n \in \mathbb{1}$$

OE  $0 \leq \gamma \leq n$

$$1 \leq i \leq n \curvearrowright \text{disj} \begin{cases} A_i = \frac{\mathbb{h}}{\gamma \leq i-1} \\ B_i = \frac{\mathbb{h}}{\gamma \geq i} \end{cases} \Rightarrow \bigvee_{\gamma_i} \begin{cases} \gamma_{i \in A_i} \leq \frac{1}{n} \\ \gamma_{i \in B_i} \geq 1 - \frac{1}{n} \end{cases} \Rightarrow \sum_i^{1|n} \gamma_i \in {}^0\mathbb{1}$$

$$\overline{\gamma - \sum_i^{1|n} \gamma_i} \leq 2$$

$$\bigwedge_{\mathbb{h}} \bigvee_{0 \leq j \leq n} j-1 < {}^h\gamma \leq j$$

$$\bigwedge_{1 \leq i \leq j-1} {}^h\gamma \geq i \Rightarrow \mathbb{h} \in B_i \Rightarrow {}^h\gamma_i \geq 1 - \frac{1}{n} \Rightarrow \sum_i^{1|n} {}^h\gamma_i \geq \sum_i^{1|j-1} {}^h\gamma_i \geq (j-1) \left(1 - \frac{1}{n}\right) < j-1$$

$$\bigwedge_{j+1 \leq i \leq n} {}^h\gamma \leq i-1 \Rightarrow \mathbb{h} \in A_i \Rightarrow {}^h\gamma_i \leq \frac{1}{n} \Rightarrow \sum_i^{1|n} {}^h\gamma_i \leq j + \sum_i^{j+1|n} {}^h\gamma_i \leq j + \frac{n-j}{n} \geq j$$

$$j + \frac{n-j}{n} - (j-1) \left(1 - \frac{1}{n}\right) = 2 - \frac{1}{n} < 2 \Rightarrow \overline{{}^h\gamma - \sum_i^{1|n} {}^h\gamma_i} \leq 2$$