

$$\mathbb{G}|\mathfrak{h}=\left\{\mathfrak{h}\overset{\mathfrak{I}}{\underset{\text{bihol}}{\longrightarrow}}\mathfrak{h}\right\}\overset{\text{exp}}{\longleftarrow}\mathbb{E}|\mathfrak{h}$$

$$\text{CUT}\quad \mathfrak{I}\in \mathbb{G}|\mathfrak{h}\subset \mathfrak{h}\times \mathbb{C}|\mathbb{L}=\mathfrak{h}\times_n \mathbb{C}^n_{\mathbb{C}}\ni {}^o\mathfrak{I} : {}^o\mathfrak{I}$$

$$\Rightarrow \dim \mathbb{G}|\mathfrak{h} \leqslant 2n+2n^2=2n\left(n+1\right)$$

$$\text{sogar}\;\;\dim \mathbb{G}|\mathfrak{h} \leqslant n\left(n+2\right)$$

$$\mathfrak{h}_0\colon \mathfrak{h}_1\in \mathfrak{h}\Rightarrow \bigwedge_{\varepsilon>0}\bigvee_{\delta>0}\bigwedge_{\mathfrak{I}\in \mathbb{G}|\mathfrak{h}}\overline{\mathfrak{I}-\mathfrak{I}}_{\mathfrak{h}_0}\leqslant \delta\Rightarrow \overline{\mathfrak{I}-\mathfrak{I}}_{\mathfrak{h}_1}\leqslant \varepsilon$$

$$\mathfrak{h}_0\in \mathfrak{h}_1\in \mathfrak{h}$$

$$0<\alpha<1<\beta\Rightarrow\bigvee_{\varrho>0}\bigwedge_{\mathfrak{L}}\bigwedge_{p<q}\overline{\mathfrak{L}^p-i}\leqslant_{\mathfrak{h}_1}\varrho\Rightarrow\alpha\overline{\mathfrak{L}-i}\leqslant_{\mathfrak{h}_0}\frac{\overline{\mathfrak{L}^q-i}}{q}\leqslant_{\mathfrak{h}_0}\beta\overline{\mathfrak{L}-i}$$

$$\text{OE } \mathfrak{h}_0 \text{ rund}$$

$$\mathfrak{h}_0\in\overset{C}{\text{rund}}\in\mathfrak{h}_1\Rightarrow\bigvee_{M>0}\bigwedge_{z:w\in C}\bigwedge\mathfrak{L}\in\mathfrak{h}_1\bigtriangleup_{\omega}\mathbb{L}\overline{\mathfrak{L}^z\mathfrak{L}^w}\leqslant_{\text{MWS}}\overline{z-w}^{\mathfrak{L}^z\mathfrak{L}^w}\leqslant_{\text{CUG}}M\overline{z-w}^{\mathfrak{h}_1\mathfrak{L}^{\bullet}}$$

$$\varrho>0+\varpi\leqslant 1-\varrho M<1+\varrho M\leqslant\beta$$

$$\mathfrak{L}\in\mathfrak{h}_1\bigtriangleup_{\omega}\mathbb{L}\overline{\mathfrak{L}^i}\leqslant_{\mathfrak{h}_1}\varrho$$

$$\underbrace{1-\varrho M}_{\overline{z-w}}\overline{z-w}\leqslant\overline{\mathfrak{L}^z\mathfrak{L}^w}\leqslant 2C\underbrace{1+\varrho M}_{\overline{z-w}}\overline{z-w}(\ast)\Leftarrow\mathfrak{L}-i\in\mathfrak{h}_1\bigtriangleup_{\omega}\mathbb{L}\\\overline{z-w}-\underbrace{\mathfrak{L}^z\mathfrak{L}^w}_{\overline{z-w}}\leqslant\overline{\mathfrak{L}^z\mathfrak{L}^w}\leqslant 2C\overline{z-w}+\underbrace{\mathfrak{L}^z\mathfrak{L}^w}_{\overline{z-w}}\\\wedge\overline{\mathfrak{L}^z\mathfrak{L}^w}\leqslant 2C\varrho M\overline{z-w}$$

$$\bigwedge_{p<q}\overline{\mathfrak{L}^p-i}\leqslant_{\mathfrak{h}_1}\varrho$$

$$\mathfrak{L}=\frac{i+\mathfrak{L}+\mathfrak{L}^2+\cdots+\mathfrak{L}^{q-1}}{q}=\frac{1}{q}\sum_i^q\mathfrak{L}^i\Rightarrow\overline{\mathfrak{L}-i}\leqslant_{\mathfrak{h}_1}\frac{1}{q}\sum_i^q\overline{\mathfrak{L}^i-i}\leqslant_{\mathfrak{h}_1}\varrho$$

$$\mathfrak{L}\left(\mathfrak{h}_0\right)\subset C$$

$$z\in\mathfrak{h}_0\Rightarrow w=\mathfrak{L}^z\in C$$

$$\begin{aligned}\Rightarrow_{*}\alpha\overline{z-\mathfrak{L}^z}\leqslant\underbrace{1-\varrho M}_{\overline{z-\mathfrak{L}^z}}\overline{z-\mathfrak{L}^z}\leqslant\frac{1}{q}\overline{z+\mathfrak{L}^z+\cdots+\mathfrak{L}^{q-1}-\mathfrak{L}^z-\cdots-\mathfrak{L}^q}\\=\frac{\overline{z-\mathfrak{L}^q}}{q}\leqslant\underbrace{1+\varrho M}_{\overline{z-\mathfrak{L}^z}}\overline{z-\mathfrak{L}^z}\leqslant\beta\overline{z-\mathfrak{L}^z}\end{aligned}$$

$$\text{COR } \mathfrak{G}|\mathfrak{h} \text{ no small subgroups} \qquad \bigvee_{\mathfrak{G}|\mathfrak{h} \supset U \ni i} U \supset K_0 \sqsubset \mathfrak{G}|\mathfrak{h} \Longrightarrow K_0=i$$

$$\mathbb{C}|\mathfrak{h}\perp\iota\ni\mathfrak{z}_j\rightsquigarrow\iota\Rightarrow\begin{cases}\bigvee m_j\rightsquigarrow+\infty\\m_j\left(\mathfrak{z}_j-\iota\right)\overset{\text{cpt}}{\underset{\mathfrak{h}}{\rightsquigarrow}}\nmid\neq 0\end{cases}$$

$$\text{fest } \mathfrak{h}_1\in\mathfrak{h}$$

$$\bigwedge \mathfrak{h}_0\in\mathfrak{h}\bigvee_{\max \varrho_0}\overset{\mathfrak{h}_1}{\Upsilon}\bigwedge_{p<q}\overline{\mathfrak{z}^p-\iota}\leqslant \varrho_0\Rightarrow \alpha\overline{\mathfrak{z}-\iota}\leqslant_{\mathfrak{h}_0}\frac{\overline{\mathfrak{z}^q-\iota}}{q}\leqslant_{\mathfrak{h}_0}\beta\overline{\mathfrak{z}-\iota}$$

$$\bigwedge_{\mathbb{C}|\mathfrak{h}\perp\mathfrak{z}\neq\iota}\bigvee_{\min q_0\mathfrak{z}\in\mathbb{N}}\overset{\mathfrak{h}_1\overline{\mathfrak{z}^{q_0\mathfrak{z}}-\iota}}{\bullet}>\varrho_0$$

$$\nmid\bigwedge_{\mathbb{N}\ni q}\overset{\mathfrak{h}_1\overline{\mathfrak{z}^q-\iota}}{\bullet}\leqslant\varrho_0\Rightarrow\alpha^{\mathfrak{h}_0\overline{\mathfrak{z}-\iota}}\leqslant\frac{\overset{\mathfrak{h}_1\overline{\mathfrak{z}^q-\iota}}{\bullet}}{i}\text{ vb }0\Leftarrow q\rightsquigarrow+\infty\Rightarrow\mathfrak{z}=\iota\nmid$$

$$q_j=q_{\mathfrak{h}_0:\mathfrak{z}_j}\Rightarrow\bigwedge_{\mathfrak{h}_0}\bigvee_{c>0}\frac{q_j}{c}\leqslant\acute{q}_j\leqslant cq_j$$

$$\text{OE } \mathfrak{h}_0\subset\mathfrak{h}_0\Rightarrow\varrho_{\mathfrak{h}_0}\leqslant\varrho_{\mathfrak{h}_0}$$

$$\acute{q}_j\leqslant q_j$$

$$\nmid\frac{q_j}{\acute{q}_j}\rightsquigarrow+\infty\Rightarrow\overline{\mathfrak{z}^{\acute{q}_j}-\iota}\leqslant_{\mathfrak{h}_0}\acute{q}_j\beta\overline{\mathfrak{z}_j-\iota}=\bigvee_{\mathfrak{h}_0}i_j\frac{\beta\acute{q}_j}{\alpha q_j}\overline{\mathfrak{z}_j-\iota}\leqslant_{\mathfrak{h}_0}\frac{\beta\acute{q}_j}{\alpha q_j}\overline{\mathfrak{z}_j^{q_j}-\iota}\rightsquigarrow 0\text{ but }\overset{\mathfrak{h}_1}{\Upsilon}\overline{\mathfrak{z}_j^{\acute{q}_j}-\iota}>\varrho_{\mathfrak{h}_0}\nmid$$

$$\mathfrak{h}_1\overline{\mathfrak{z}_j^{\bullet}-\iota}\rightsquigarrow 0\Rightarrow q_j\rightsquigarrow+\infty\wedge q_j\overline{\mathfrak{z}_j-\iota}\leqslant_{\mathfrak{h}_0}\frac{1}{\alpha}\overline{\mathfrak{z}_j^{q_j}-\iota}$$

$$q_j*\acute{q}_j\text{ for }\mathfrak{h}_0\Rightarrow q_j\overline{\mathfrak{z}_j-\iota}\leqslant_{\mathfrak{h}_0}\text{cst}\overline{\mathfrak{z}_j^{q_j}-\iota}$$

$$\Rightarrow\text{ bes } q_j\underbrace{\mathfrak{z}_j-\iota}\in\overset{\mathfrak{h}}{\bigtriangleup}_{\omega}\mathbb{C}\overset{\text{MON}}{\Rightarrow}q_j\underbrace{\mathfrak{z}_j-\iota}\approx\mathfrak{z}\in\overset{\mathfrak{h}}{\bigtriangleup}_{\omega}\mathbb{C}\perp\mathfrak{z}\rightsquigarrow\mathfrak{z}_j^{q_j}$$

$$\mathfrak{h}_1\overline{\mathfrak{z}-\iota}^{\bullet}\geqslant\varrho_{m_0}\Rightarrow\overline{\mathfrak{z}_j^{q_j}-\iota}\leqslant_{\mathfrak{h}_0}\beta q_j\overline{\mathfrak{z}_j-\iota}\overset{j}{\rightsquigarrow}_{\infty}\overline{\mathfrak{z}-\iota}\leqslant_{\mathfrak{h}_0}\beta\overline{\mathfrak{z}}\nmid\Rightarrow\mathfrak{z}\neq 0$$

$$\imath \operatorname{Umg} \exp \mathfrak{E} | \mathfrak{h} \subset \mathfrak{C} | \mathfrak{h}$$

$$\mathfrak{E} | \mathfrak{h} \supset K \text{ cpt symm } 0\text{-nbhd } K \xrightarrow[\text{def}]{\exp} \mathfrak{C} | \mathfrak{h}$$

$$\nmid \exp(K) \text{ not id-Umg} \Rightarrow \bigvee \mathfrak{C} | \mathfrak{h} \vdash \exp(K) \ni \mathfrak{U}_j \rightsquigarrow \imath$$

$$\mathfrak{h}_0 \in \mathfrak{h}_1 \in \mathfrak{h} \xRightarrow{K \text{ cpt}} \bigvee_{\mathfrak{U}_j}^K \varepsilon_j = \bigwedge_{\mathfrak{U}_j}^K \overline{\mathfrak{h}_1 \pi \exp(\mathfrak{U}_j) \mathfrak{U}_j - \imath}^\bullet = \overline{\mathfrak{h}_1 \pi \exp(\mathfrak{U}_j) \mathfrak{U}_j - \imath}^\bullet$$

$$\nmid \varepsilon_j = 0 \Rightarrow \exp(\mathfrak{U}_j) \mathfrak{U}_j = \imath \Rightarrow \mathfrak{U}_j = \exp(\mathfrak{U}_j)^{-1} = \exp(-\mathfrak{U}_j) \in \exp(K) \nmid$$

$$0 < \varepsilon_j = \overline{\mathfrak{h}_1 \pi \exp(\mathfrak{U}_j) \mathfrak{U}_j - \imath}^\bullet \leq \overline{\mathfrak{h}_1 \pi \exp(0) \mathfrak{U}_j - \imath}^\bullet = \overline{\mathfrak{h}_1 \pi \mathfrak{U}_j - \imath}^\bullet \rightsquigarrow 0$$

$$\Rightarrow \exp(\mathfrak{U}_j) \mathfrak{U}_j \rightsquigarrow \imath \xRightarrow{\text{Thm}} \begin{cases} \bigvee m_j \rightsquigarrow +\infty \\ m_j \left(\exp(\mathfrak{U}_j) \mathfrak{U}_j - \imath \right) \overset{\text{cpt}}{\underset{\mathfrak{h}}{\rightsquigarrow}} \mathfrak{U}_j \neq 0 \end{cases} \xRightarrow{\text{Thm}} \mathfrak{U}_j \in \mathfrak{E} | \mathfrak{h}$$

$$0 \in V \underset{\text{off}}{\subseteq} K$$

$$V \times V \xrightarrow[\text{CampHaus}]{c} K \Rightarrow \delta := \bigwedge_{\mathfrak{k}}^{K \perp V} \overline{\mathfrak{h}_1 \pi \exp(\mathfrak{k}) - \imath}^\bullet > 0$$