$$\mathbb{C}\underset{\omega}{\triangle} \ni \mathfrak{h} \text{ Stein } \Longrightarrow \overset{\mathfrak{h}:\mathcal{U}}{\underset{\omega}{\blacktriangle}}\overset{+1}{\mathbb{C}} = 0$$

$$\begin{cases} \bigwedge_{UV} \mathfrak{1} \in \overset{U \cap V}{\underset{\omega}{\triangle}}\mathbb{C} \\ {}_{UV}\mathfrak{1} + {}_{VW}\mathfrak{1} + {}_{WU}\mathfrak{1}_{U \cap \overline{\overline{V}} \cap W} = 0 \end{cases} \curvearrowright \begin{cases} \bigvee {}_{U}\mathfrak{1} \in \overset{U}{\underset{\omega}{\triangle}}\mathbb{C} \\ {}_{U}\mathfrak{1} - {}_{V}\mathfrak{1}_{U \cap \overline{\overline{V}} V} {}_{UV}\mathfrak{1} \end{cases}$$

$$\overset{\mathfrak{h}}{\underset{\infty}{\blacktriangle}}\overset{\mathfrak{h}}{\underset{-}{\triangle}}\overset{01}{\mathbb{C}} = 0 \Longrightarrow \overset{\mathfrak{h}:\mathcal{U}}{\underset{\omega}{\blacktriangle}}\overset{+1}{\mathbb{C}} = 0$$

$${}_{UV}\mathfrak{1} \in \overset{U \cap V}{\underset{\omega}{\triangle}}\mathbb{C} : \quad {}_{UV}\mathfrak{1} + {}_{VW}\mathfrak{1} + {}_{WU}\mathfrak{1}_{U \cap \overline{\overline{V}} \cap W} = 0$$

$$\bigvee_{\text{part of unity}} \psi^{\alpha} \in \overset{\mathfrak{h}}{\underset{\infty}{\triangle}} 0|1 \bigvee A \ni \alpha \wedge U_{\alpha} \in \mathcal{U} \text{ Trg } \psi^{\alpha} \Subset U_{\alpha}$$

$$\bigwedge_{\mathfrak{h} \in \mathfrak{h}} \bigvee \mathfrak{h} \in \Omega \subset \mathfrak{h} \overset{A \vdash A_{\Omega}}{\bigwedge_{\alpha}} \psi^{\alpha}{}_{\overline{\overline{\Omega}}} = 0 \Longrightarrow {}_{U}\mathfrak{1} := \sum_{\alpha} \psi^{\alpha}{}_{UU_{\alpha}}\mathfrak{1} \in \overset{U}{\underset{\infty}{\triangle}}\mathbb{C}$$

$$0_{U \cap \overline{\overline{V}} \cap U_{\alpha}} {}_{UV}\mathfrak{1} + {}_{VU_{\alpha}}\mathfrak{1} + {}_{U_{\alpha}U}\mathfrak{1}_{U \cap \overline{\overline{V}} \cap U_{\alpha}} {}_{UV}\mathfrak{1} + {}_{VU_{\alpha}}\mathfrak{1} - {}_{UU_{\alpha}}\mathfrak{1}$$

$$\Longrightarrow {}_{U}\mathfrak{1} - {}_{V}\mathfrak{1}_{U \overline{\cap} V} = \sum_{\alpha} \psi^{\alpha} \underbrace{{}_{UU_{\alpha}}\mathfrak{1} - {}_{VU_{\alpha}}\mathfrak{1}}_{U \overline{\cap} V} \sum_{\alpha} \psi^{\alpha}{}_{UV}\mathfrak{1}_{U \overline{\cap} V} {}_{UV}\mathfrak{1}$$

$$\Longrightarrow \bar{\partial}\,{}_{U}\mathfrak{1} - \bar{\partial}\,{}_{V}\mathfrak{1}_{U \overline{\cap} V} \bar{\partial}\,{}_{UV}\mathfrak{1}_{U \overline{\cap} V} 0 \Longrightarrow \bigvee \mathfrak{q} \in \overset{\mathfrak{h}}{\underset{\infty}{\blacktriangle}}\overset{\mathfrak{h}}{\underset{-}{\triangle}}\overset{01}{\mathbb{C}} : \quad {}^{U\widehat{}}\mathfrak{q} = \bar{\partial}\,{}_{U}\mathfrak{1} \Longrightarrow \bar{\partial}\mathfrak{q} = 0$$

$$\Longrightarrow \mathfrak{q} \in \overset{\mathfrak{h}}{\underset{\infty}{\blacktriangle}}\overset{\mathfrak{h}}{\underset{-}{\triangle}}\overset{01}{\mathbb{C}} = \overset{\mathfrak{h}}{\underset{\infty}{\blacktriangle}}\overset{\mathfrak{h}}{\underset{-}{\triangle}}\overset{01}{\mathbb{C}} \Longrightarrow \bigvee \mathfrak{1} \in \overset{\mathfrak{h}}{\underset{\infty}{\triangle}}\mathbb{C} : \quad \bar{\partial}\mathfrak{1} = \mathfrak{q}$$

$${}_{U}\mathfrak{1} = {}_{U}\mathfrak{1} - {}^{U\widehat{}}\mathfrak{1} \in \overset{U}{\underset{\infty}{\triangle}}\mathbb{C} \Longrightarrow \bar{\partial}\,{}_{U}\mathfrak{1}_{\overline{\overline{U}}} \bar{\partial}\,{}_{U}\mathfrak{1} - \overset{U}{\overbrace{\bar{\partial}\mathfrak{1}}}_{\overline{\overline{U}}} 0 \Longrightarrow {}_{U}\mathfrak{1} \in \overset{U}{\underset{\omega}{\triangle}}\mathbb{C}$$

$${}_{U}\mathfrak{1} - {}_{V}\mathfrak{1}_{U \overline{\cap} V} \underbrace{{}_{U}\mathfrak{1} - {}^{U\widehat{}}\mathfrak{1}}_{U \overline{\cap} V} - \underbrace{{}_{V}\mathfrak{1} - {}^{U\widehat{}}\mathfrak{1}}_{U \overline{\cap} V} {}_{U}\mathfrak{1} - {}_{V}\mathfrak{1}_{U \overline{\cap} V} {}_{UV}\mathfrak{1}$$