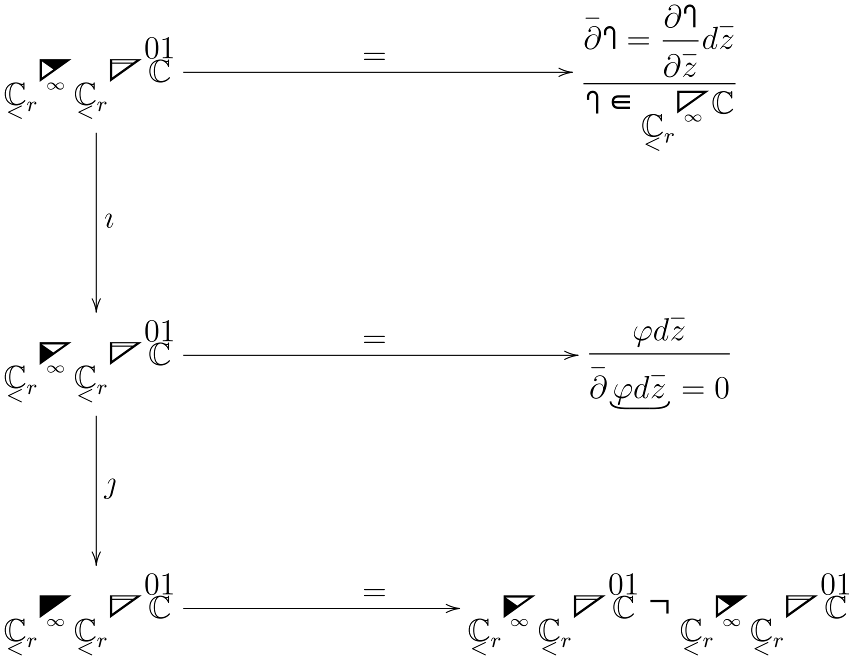

01
=
$\bar{\partial}\eta = \frac{\partial \eta}{\partial \bar{z}} d\bar{z}$
$\imath$
01
=
$\varphi d\bar{z}$
$\bar{\partial}\,\underbrace{\varphi d\bar{z}} = 0$
$\jmath$
01
=
01
01

$$\bigwedge_{\varphi}^{\mathbb{C}_{<r}\nabla_\infty\mathbb{C}} \ \bigvee_{\daleth}^{\mathbb{C}_{<r}\nabla_\infty\mathbb{C}} \frac{\partial\daleth}{\partial\bar z} = \varphi$$

$$\bigvee\begin{cases} 0 < r_n \nearrow r & \mathrm{Trg}\ \chi_n \Subset \mathbb{C}_{<r_{n+1}} \\ \chi_n \in {}_{\mathbb{C}_{<r}}\nabla_\infty\mathbb{C} & \overset{\mathbb{C}_{<r_n}}{\llcorner}\chi_n = 1 \end{cases} \bigwedge_n \begin{cases} \bigvee \daleth_n \in {}_{\mathbb{C}}\nabla_\infty\mathbb{C} \\ \dfrac{\partial\daleth_n}{\partial\bar z} = \chi_n\varphi \end{cases}$$

$$\bigvee_{\hat\daleth_n}^{\mathbb{C}\nabla_\infty\mathbb{C}} \begin{cases} \dfrac{\partial\hat\daleth_n}{\partial\bar z} = \varphi \\ {}^{\mathbb{C}_{<r_{n-1}}}\overline{\hat\daleth_{n+1} - \hat\daleth_n}^{\bullet} \leqslant 2^{-n} \end{cases}$$

$$\hat\daleth_1 = \daleth_1 : 0 \leqslant n \curvearrowright n+1$$

$$\frac{\partial}{\partial\bar z}\underbrace{\daleth_{n+1} - \hat\daleth_n} = \frac{\partial\daleth_{n+1}}{\partial\bar z} - \frac{\partial\hat\daleth_n}{\partial\bar z} = \chi_{n+1}\varphi - \varphi \Rightarrow \overset{\mathbb{C}_{<r_n}}{\llcorner} \frac{\partial}{\partial\bar z}\underbrace{\daleth_{n+1} - \hat\daleth_n}\,\daleth_{n+1} - \hat\daleth_n = 0 \Rightarrow \daleth_{n+1} - \hat\daleth_n \text{ hol on } \mathbb{C}_{<r_n}$$

$$\Rightarrow {}^{z}\overbrace{\daleth_{n+1} - \hat\daleth_n} \rightsquigarrow \sum_{0\leqslant m} z^m\, c_m \text{ glm on } \mathbb{C}_{<r_{n-1}} \Rightarrow \begin{cases} \bigvee^{z} \mathsf{1} = \sum\limits_{m}^{N} z^m c_m \in {}^{\mathbb{C}}\triangle_{\pitchfork}\mathbb{C} \\ {}^{\mathbb{C}_{<r_{n-1}}}\overline{\daleth_{n+1} - \hat\daleth_n - \mathsf{1}}^{\bullet} \leqslant 2^{-n} \end{cases}$$

$$\hat\daleth_{n+1} = \daleth_{n+1} - \mathsf{1} \Rightarrow \overline{\hat\daleth_{n+1} - \hat\daleth_n} \leqslant 2^{-n} \Rightarrow \daleth \rightsquigarrow \hat\daleth_n \in {}_{\mathbb{C}_{<r}}\nabla\mathbb{C}$$

$$\frac{\partial\hat\daleth_{n+1}}{\partial\bar z} = \frac{\partial\daleth_{n+1}}{\partial\bar z} = \chi_{n+1}\varphi \underset{\mathbb{C}_{<r_{n-1}}}{=} \varphi$$

$$\text{bel } U \underset{\text{off}}{\Subset} \mathbb{C}_{<r} \Rightarrow \bigvee_m U \subset \mathbb{C}_{<r_m} \Rightarrow \hat\daleth_n \underset{n\geqslant m}{\rightsquigarrow} \daleth = \hat\daleth_m + \underbrace{\sum_{n\geqslant m}\underbrace{\hat\daleth_{n+1} - \hat\daleth_n}}_{=:\mathsf{1}_m} \text{ on } \mathbb{C}_{<r_m}$$

$$\frac{\partial\mathsf{1}_m}{\partial\bar z} = \sum_{n\geqslant m}\frac{\partial}{\partial\bar z}\underbrace{\hat\daleth_{n+1} - \hat\daleth_n} = \sum_{n\geqslant m}\underbrace{\frac{\partial\hat\daleth_{n+1}}{\partial\bar z} - \frac{\partial\hat\daleth_n}{\partial\bar z}}_{\varphi-\varphi} = 0 \underset{\text{Wei}}{\Rightarrow} \mathsf{1}_m \text{ hol on } \mathbb{C}_{<r_m}$$

$$\Rightarrow \overset{\mathbb{C}_{<r_m}}{\llcorner}\daleth \in {}_{\mathbb{C}_{<r_m}}\nabla_\infty\mathbb{C} \wedge \frac{\partial\daleth}{\partial\bar z} = \frac{\partial\hat\daleth_m}{\partial\bar z} + \frac{\partial\mathsf{1}_m}{\partial\bar z} = \frac{\partial\hat\daleth_m}{\partial\bar z} \underset{\mathbb{C}_{<r_m}}{=} \varphi$$

$$m \text{ bel } \Rightarrow \daleth \in {}_{\mathbb{C}_{<r}}\nabla_\infty\mathbb{C} \wedge \frac{\partial\daleth}{\partial\bar z} = \varphi$$

$$\bigwedge_{\varphi}^{\mathbb{C}_{<r}^{\infty}\mathbb{C}} \bigvee_{\daleth}^{\mathbb{C}_{<r}^{\infty}\mathbb{C}} \Delta\daleth = \varphi \text{ Poisson kern}$$

$$\bigvee_{\reflectbox{$\daleth$}}^{\mathbb{C}_{<r}^{\infty}\mathbb{C}} \frac{\partial\reflectbox{$\daleth$}}{\partial\bar{z}} = \varphi \Longrightarrow \bigvee_{\daleth}^{\mathbb{C}_{<r}^{\infty}\mathbb{C}} \frac{\partial\bar{\daleth}}{\partial\bar{z}} = \bar{\reflectbox{$\daleth$}} \Rightarrow \frac{1}{4}\Delta\daleth = \frac{\partial^2}{\partial\bar{z}\partial z}\daleth = \frac{\partial}{\partial\bar{z}}\overline{\frac{\partial}{\partial\bar{z}}\bar{\daleth}} = \frac{\partial}{\partial\bar{z}}\reflectbox{$\daleth$} = \varphi$$