$$o^{\cdot} + \mathbb{B}R^{\cdot}{}_{\underset{\omega}{\triangle}}\mathbb{C}$$

$$\text{ๅ} \in {}^{\text{Ћ}}{}_{\underset{\omega}{\triangle}}\mathbb{C}$$

$$\text{poly-disc}\ {}^{o^{\cdot}}\mathbb{C}^{d}_{\leqslant r^{\cdot}} \Subset \text{Ћ}$$

$$0 < R^{j} \leqslant +\infty$$

$$\mathbb{C}^d \supset \hbar \xrightarrow[\text{stet part } \mathbb{C} \text{ diff}]{\gamma} \mathbb{C}$$

$$^{o^{\cdot}}\mathbb{C}^d_{<r^{\cdot}} \Subset \hbar$$

$$\bigwedge_{z}^{^{o^{\cdot}}\mathbb{C}^d_{<r^{\cdot}}} {}^{z}\gamma = \int_{d\cancel{w}^{\cdot}}^{^{o^{\cdot}}\mathbb{C}^d_{=r^{\cdot}}} \frac{^{w^{\cdot}}\gamma}{\overset{.1}{(w^{\cdot} - z^{\cdot})}}$$

$$^{z^1 \cdots z^d}\gamma = \int_{d\cancel{w}^1}^{^{o^1}\mathbb{C}_{=r^1}} \cdots \int_{d\cancel{w}^d}^{^{o^d}\mathbb{C}_{=r^d}} \frac{^{w^1 \cdots w^d}\gamma}{\left(w^1 - z^1\right) \cdots \left(w^d - z^d\right)}$$

$$\mathrm{Ind}_{0 \leqslant d} d = 0: \quad \text{leer } 0 \leqslant d \curvearrowright d+1: \quad {}^{o^{\cdot}}\mathbb{C}^d_{\leqslant r^{\cdot}} = {}^{o^1}\mathbb{C}_{\leqslant r^1} \times {}^{o'}\mathbb{C}^{d-1}_{\leqslant r'}$$

$$^{o^{\cdot}}\mathbb{C}^d_{=r^{\cdot}} = {}^{o^1}\mathbb{C}_{=r^1} \times {}^{o'}\mathbb{C}^{d-1}_{=r'}$$

$$(*) \quad \bigwedge_{z'}^{^{o'}\mathbb{C}^{d-1}_{\leqslant r'}} {}^{-:z'}\gamma \text{ hol um } {}^{o^1}\mathbb{C}_{\leqslant r^1}$$

$$(**) \quad \bigwedge_{w^1}^{^{o^1}\mathbb{C}_{=r^1}} {}^{w^1:-}\gamma \text{ hol/stet part hol um } {}^{o'}\mathbb{C}^{d-1}_{\leqslant r'}$$

$$z = z^1 : z' \in {}^{o^{\cdot}}\mathbb{C}^d_{<r^{\cdot}} \Longrightarrow {}^{o^{\cdot}}\mathbb{C}^d_{=r^{\cdot}} \ni w \xrightarrow{\text{stet}} \frac{^{w}\gamma}{(w-z)^1} = \frac{^{w^1:w'}\gamma}{\left(w^1 - z^1\right)\left(w' - z'\right)^{1'}}$$

$$\underset{\text{FUB}}{\Longrightarrow} \int_{d\cancel{w}}^{^{o^{\cdot}}\mathbb{C}^d_{=r^{\cdot}}} \frac{^{w}\gamma}{(w-z)^1} = \int_{d\cancel{w}^1}^{^{o^1}\mathbb{C}_{=r^1}} \frac{1}{w^1 - z^1} \int_{d\cancel{w}'}^{^{o'}\mathbb{C}^{d-1}_{=r'}} \frac{^{w^1:w'}\gamma}{(w' - z')^{1'}} = \int_{d\cancel{w}^1}^{^{o^1}\mathbb{C}_{=r^1}} \frac{^{w^1:z'}\gamma}{w^1 - z^1} = {}^{z^1:z'}\gamma = {}^{z}\gamma$$

$$\text{COR} \,/ \qquad \gamma \text{stet} \underset{\mathbb{C}}{\text{part}} \text{ diff} \Longrightarrow \gamma \underset{\mathbb{C}}{\text{diff}}$$

$$\gamma \underset{\mathbb{C}}{\text{part}} \text{ diff} \underset{\text{HAR}}{\Longrightarrow} \gamma \underset{\mathbb{C}}{\text{diff}}$$

$$\partial_z^{\cancel{\nu}} \frac{1}{(w-z)^{\ddagger}} = \frac{1}{(w-z)^{\ddagger + \nu}}$$

$$\bigwedge_{\lceil z-o \rceil < r} \frac{\overset{z}{\rceil}_{.\nu-}}{.\nu!} = \frac{1}{{}_1\nu! \cdots {}_d\nu!} \partial_1^{1^{\nu}} \cdots \partial_d^{d^{\nu}} \, {}^{z^1 \cdots z^d}\rceil = \frac{1}{{}_1\nu! \cdots {}_d\nu!} \frac{\overset{1^{\nu}}{\partial}}{\partial z^1} \cdots \frac{\overset{d^{\nu}}{\partial}}{\partial z^d} \, {}^{z^1 \cdots z^d}\rceil$$

$$= \int_{dw^1 \cdots dw^d}^{\partial_{ex} \mathbb{C}^d_{r_1 \cdots r_d} (o^1 \cdots o^d)} \frac{{}^{w^1 \cdots w^d}\rceil}{(w-z)^{1 + {}_1\nu \cdot \cdot 1 + {}_d\nu}} = \int_{d\cancel{w}^{\cdot}}^{o^{\cdot} \underline{\mathbb{C}}^d_{r^{\cdot}}} \frac{{}^{w^{\cdot}}\rceil}{(w^{\cdot} - z^{\cdot})^{.\nu + .1}} = \int_{d\cancel{w}^{\cdot}}^{o^{\cdot} \underline{\mathbb{C}}^d_{r^{\cdot}}} {}^{w^{\cdot}}\rceil \, \overbrace{w^{\cdot} - z^{\cdot}}^{-.\nu - .1}$$