

$$\begin{aligned}\mathbb{R}^{2n} \supset \mathfrak{h} \xrightarrow[\mathbb{R} \text{ diff}]{u:v} \mathbb{R}^{2m} \\ {}^{x+i y} \mathcal{V}^j = {}^{x:y} \mathcal{V}^j + i {}^{x:y} \mathcal{V}^j \\ {}^{x+i y} \bar{\mathcal{V}}^j = {}^{x:y} \mathcal{V}^j - i {}^{x:y} \mathcal{V}^j\end{aligned}$$

$$\mathcal{V}_{\mathbb{R} \text{ diff}} \text{ in } c = a + ib \Leftrightarrow \overline{z - c} \leq \delta \curvearrowright \overline{{}^z \mathcal{V} - {}^c \mathcal{V} - (z - c) {}_z \partial {}^c \mathcal{V} - (z^* - c^*) {}_{z^*} \partial {}^c \mathcal{V}} \leq \varepsilon \overline{|z - c|}$$

$$\begin{aligned}& (z - c) {}_z \partial \mathcal{V} + (z^* - c^*) {}_{z^*} \partial \mathcal{V} = ((x - a) + i(y - b)) {}_z \partial \mathcal{V} + ((x - a) - i(y - b)) {}_{z^*} \partial \mathcal{V} \\&= (x - a) \left({}_z \partial \mathcal{V} + {}_{z^*} \partial \mathcal{V} \right) + i(y - b) \left({}_z \partial \mathcal{V} - {}_{z^*} \partial \mathcal{V} \right) = (x - a) ({}_x \partial {}_{\mathbb{R}} \mathcal{V} + {}_{i_x} \partial {}_{\mathbb{I}} \mathcal{V}) + (y - b) ({}_y \partial {}_{\mathbb{R}} \mathcal{V} + {}_{i_y} \partial {}_{\mathbb{I}} \mathcal{V}) \\&\quad \Rightarrow {}^z \mathcal{V} - {}^c \mathcal{V} - (z - c) {}_z \partial \mathcal{V} - (z^* - c^*) {}_{z^*} \partial \mathcal{V} \\&= {}^{x:y} \mathcal{V} - {}^{a:b} \mathcal{V} - (x - a) {}^{a:b} \partial {}_{\mathbb{R}} \mathcal{V} - (y - b) {}^{a:b} \partial {}_{\mathbb{R}} \mathcal{V} + i \left({}^{x:y} \mathcal{V} - {}^{a:b} \mathcal{V} - (x - a) {}^{a:b} \partial {}_{\mathbb{I}} \mathcal{V} - (y - b) {}^{a:b} \partial {}_{\mathbb{I}} \mathcal{V} \right)\end{aligned}$$

$$\mathcal{V}_{\mathbb{R} \text{ diff}} \Leftrightarrow {}_{\mathbb{R}} \mathcal{V} : {}_{\mathbb{I}} \mathcal{V}_{\mathbb{R} \text{ diff}} \Leftrightarrow \overline{|x - a:y - b|} \leq \delta \curvearrowright$$

$$\overline{{}^{x:y} \mathcal{V} - {}^{a:b} \mathcal{V} - (x - a) {}^{a:b} \partial {}_{\mathbb{R}} \mathcal{V} - (y - b) {}^{a:b} \partial {}_{\mathbb{R}} \mathcal{V}} \leq \frac{\varepsilon}{2} \overline{|x - a:y - b|} \geq \overline{{}^{x:y} \mathcal{V} - {}^{a:b} \mathcal{V} - (x - a) {}^{a:b} \partial {}_{\mathbb{I}} \mathcal{V} - (y - b) {}^{a:b} \partial {}_{\mathbb{I}} \mathcal{V}}$$