

$$\begin{aligned}
\mathfrak{G} |_{\mathfrak{e}\mathbb{I}} &= \mathfrak{G}_{\pm}^0 |_{\mathfrak{e}\mathbb{I}} \times \mathfrak{G}^{\times} |_{\mathfrak{e}\mathbb{I}} \times \mathfrak{G}^{2\times} |_{\mathfrak{e}\mathbb{I}} \\
\mathfrak{G}_1^0 |_{\mathfrak{e}\mathbb{I}} &= \frac{z\delta\partial_z = u\delta\partial_u + v\delta\partial_v + w\delta\partial_w \in \mathbf{U} |_{\mathbb{I}}}{e\delta = 0} \\
\mathfrak{G}_{-}^0 |_{\mathfrak{e}\mathbb{I}} &= \frac{z\check{e}a\partial_z = u\check{e}a\partial_u + v\check{e}a\partial_v}{a = \check{a} \in U} \times \frac{\underline{c - z\check{c}z}\partial_z = \underline{c - w\check{c}w}\partial_w - v\check{c}v\partial_u - 2v\check{c}w\partial_v}{c \in W} \\
\mathfrak{G}^1 |_{\mathfrak{e}\mathbb{I}} &= \frac{\underline{b + 2z\check{b}e}\partial_z = 2v\check{b}e\partial_u + \underline{b + 2w\check{b}e}\partial_w}{b \in V} \\
\mathfrak{G}^{-1} |_{\mathfrak{e}\mathbb{I}} &= \frac{\underline{z\check{b}z + 2z\check{e}b}\partial_z = 2u\check{b}v\partial_u + 2\underline{v\check{b}w + v\check{e}b}\partial_w + \underline{v\check{b}v + 2u\check{b}w + 2u\check{e}b}\partial_v}{b \in V} \\
\mathfrak{G}^2 |_{\mathfrak{e}\mathbb{I}} &= \frac{a\partial_z = a\partial_u}{a = -\check{a} \in U} \\
\mathfrak{G}^{-2} |_{\mathfrak{e}\mathbb{I}} &= \frac{z\check{a}z\partial_z = u\check{a}u\partial_u + 2u\check{a}v\partial_v + v\check{a}v\partial_w}{a = -\check{a} \in U} \\
2z\check{e}e\partial_z &= 2u\partial_u + v\partial_v \in \mathfrak{G}_{-} |_{\mathfrak{e}\mathbb{I}} \\
\mathfrak{G}^{\lambda} |_{\mathfrak{e}\mathbb{I}} &= \frac{\mathfrak{b} \in \mathfrak{G} |_{\mathfrak{e}\mathbb{I}}}{2\mathfrak{b} \times (z\check{e}e) = \lambda\mathfrak{b}} \\
a \times (z\check{e}e) &= a\check{e}e = a \\
(z\check{e}e) \times (z\check{a}z) &= 2(z\check{e}e)\check{a}z - (z\check{a}z)\check{e}e = z(e\check{e}a)z = z\check{a}z \\
(b + 2z\check{b}e) \times (z\check{e}e) &= b \times (z\check{e}e) + 2(z\check{b}e) \times (z\check{e}e) \\
= b\check{e}e + 2\underline{\check{b}(e\check{e}e) - (e\check{e}b)e} &= b/2 + 2(\check{b}e - \check{b}e/2) = (b + 2z\check{b}e)/2 \\
(z\check{e}e) \times (z\check{b}z + 2z\check{e}b) &= 2(z\check{e}e)\check{b}z - (z\check{b}z)\check{e}e + 2(\check{e}e) \times (\check{e}b) \\
= z(e\check{e}b)z + 2\underline{\check{e}(e\check{e}b) - 2(e\check{e}b)e} &= (z\check{b}z + 2z\check{e}b)/2
\end{aligned}$$