

$$\mathfrak{G} |_{\mathfrak{e}\mathbb{L}} = \mathfrak{G}_1 |_{\mathfrak{e}\mathbb{L}} \times \mathfrak{G}_-^{\bullet} |_{\mathfrak{e}\mathbb{L}} \times \mathfrak{G}^{\lt} |_{\mathfrak{e}\mathbb{L}} \text{ Iwasawa}$$

$$\mathfrak{U} |_{\mathfrak{e}\mathbb{L}} = \mathfrak{U}_1 |_{\mathfrak{e}\mathbb{L}} \times \mathfrak{U}_-^{\bullet} |_{\mathfrak{e}\mathbb{L}} \times \mathfrak{U}^{\lt} |_{\mathfrak{e}\mathbb{L}}$$

$$\mathfrak{G}^{\lt} |_{\mathfrak{e}\mathbb{L}} = \sum_{1 \leq i < j \leq r} \mathfrak{G}^1_{j-i} |_{\mathfrak{e}\mathbb{L}} \times \sum_{0 \leq i \leq j \leq r} \mathfrak{G}^1_{j+i} |_{\mathfrak{e}\mathbb{L}} = \mathbb{C}^{\lt}(\mathbb{L}) \times \mathfrak{G}^1 |_{\mathfrak{e}\mathbb{L}} \times \mathfrak{G}^2 |_{\mathfrak{e}\mathbb{L}}$$

$$\mathfrak{G}_-^{\bullet} |_{\mathfrak{e}\mathbb{L}} = \mathbb{K} \frac{2z \check{e}_k e_k \frac{\partial}{\partial z} = 2\check{e}_k e_k}{1 \leq k \leq r}$$

$$\underbrace{\times \sum_k \lambda^k \check{e}_k e_k}_{\mathcal{N}} = \sum_j \underbrace{a(j-1) + 1 + b}_{\mathcal{N}} \lambda^j$$

$$\text{LHS} = \sum_k \lambda^k \underbrace{\times \check{e}_k e_k}_{\mathcal{N}} = \sum_{i < j} \frac{a}{2} \underbrace{\lambda^j - \lambda^i}_{\mathcal{N}} + \sum_{i < j} \frac{a}{2} \underbrace{\lambda^j + \lambda^i}_{\mathcal{N}} + \frac{1}{2} \sum_j \underbrace{2\lambda^j + 2b\lambda^j}_{\mathcal{N}} = a \sum_{i < j} \lambda^j + (1+b) \sum_j \lambda^j = \text{RHS}$$

$$\varrho = \sum_j \underbrace{a(j-1) + 1 + b}_{\mathcal{N}} \delta^j$$