

$$\mathfrak{E} |_{\mathfrak{U}\mathbb{I}} = \mathfrak{E}_1 |_{\mathfrak{U}\mathbb{I}} \times \mathfrak{E}_-^{\bullet} |_{\mathfrak{U}\mathbb{I}} \times \mathfrak{E}^{\lt} |_{\mathfrak{U}\mathbb{I}} \text{ Iwasawa}$$

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

$$\mathfrak{E}^{\lt} |_{\mathfrak{U}\mathbb{I}} = \sum_{i < j} \mathfrak{E}_{j-i}^1 |_{\mathfrak{U}\mathbb{I}} \times \sum_{0 \leq i \leq j \leq r} \mathfrak{E}_{j+i}^1 |_{\mathfrak{U}\mathbb{I}}$$

$$= \sum_{i < j} \mathfrak{E}_{j-i}^1 |_{\mathfrak{U}\mathbb{I}} \times \mathfrak{E}^1 |_{\mathfrak{U}\mathbb{I}} \times \mathfrak{E}^2 |_{\mathfrak{U}\mathbb{I}}$$

$$\mathfrak{E}_-^{\bullet} |_{\mathfrak{U}\mathbb{I}} = \mathbb{K} \frac{e_k - ze_k^* z \partial_z}{1 \leq k \leq r}$$

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

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

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