

Erratum: Classical integrability for three-point functions: cognate structure at weak and strong couplings

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1. In the equation (7.34) on page 49, the term that contains $\text{Li}_2(e^{i\hat{p}_1+i\hat{p}_2+i\hat{p}_3})$ was missing on the first line. The correct formulae, which follow from the preceding discussions in the paper, are

$$\begin{aligned}
 (\mathcal{L} + \mathcal{R})_{\text{AdS}} &= \oint_U \frac{du}{2\pi} \text{Li}_2 \left(e^{i\hat{p}_1+i\hat{p}_2+i\hat{p}_3} \right) + \sum_{\{i,j,k\} \in \text{cperm}\{1,2,3\}} \oint_U \frac{du}{2\pi} \text{Li}_2 \left(e^{i\hat{p}_i+i\hat{p}_j-i\hat{p}_k} \right), \\
 \mathcal{N}_{\text{AdS}} &= - \sum_k \oint_U \frac{du}{2\pi} \text{Li}_2 \left(e^{2i\hat{p}_k} \right).
 \end{aligned}
 \tag{1}$$

2. We inadvertently wrote an incorrect formula for the equation (7.37) on page 50. The correct formula which is consistent with other formulae in the paper is

$$p_i(x) \sim -\frac{i\Delta_i}{4g\theta} + O(\theta).
 \tag{2}$$

3. In the equation (7.49) on page 52, the term that contains $\text{Li}_2(e^{ip_1+ip_2+ip_3})$ was missing on the first line. The correct formulae, which follow from the discussions in the paper, are

$$\begin{aligned}
 (\mathcal{L}+\mathcal{R})_{\text{S}} &= \oint_U \frac{du}{2\pi} \text{Li}_2(e^{ip_1+ip_2+ip_3}) + \frac{1}{2} \sum_{\{i,j,k\} \in \text{cperm}\{1,2,3\}} \left(\oint_{\Gamma_i \cup \Gamma_j \cup 2U} \frac{du}{2\pi} \text{Li}_2(e^{ip_i+ip_j-ip_k}) \right), \\
 \mathcal{N}_{\text{S}} &= -\frac{1}{2} \sum_k \oint_{\Gamma_k \cup 2U} \frac{du}{2\pi} \text{Li}_2(e^{2ip_k}).
 \end{aligned}
 \tag{3}$$

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