Errata list in Branes and DAHA Representations (SpringerBriefs in Mathematical Physics, volume 48)

- **Figure 2**: The depiction of the two-cycle $\mathbf{W}$ in Figure 2 of the paper was incorrect. I found that the two-cycle does not exist as previously shown. Instead, the correct structure involves a two-cycle suspended between b_1 and b_2 via b_3. The figure has been updated accordingly, along with the corresponding explanation below Figure 2 in the second version of arXiv.

- **Equation (2.89)**:

$$\tau_+(\mathbf{P}) = \{z = \tilde{t} + \tilde{t}^{-1}, \ x = \tilde{t}^{-1}y\},$$
$$\longrightarrow \tau_+(\mathbf{P}) = \{xy - z = \tilde{t} + \tilde{t}^{-1}, \ y = \tilde{t}^{-1}x\}.$$

- **Below equation (2.134)**: two compound branes $\longrightarrow$ two irreducible branes

- **Equation (2.149)**:

$$\frac{1}{2\hbar} + 2c - 1 \quad \text{is corrected to} \quad \frac{1}{2\hbar} - 2c + 1.$$

- **Shortening condition in Table 2**: The correct form is:

$$t = q^{-\ell+1/2} \quad (\text{not } t^2 = q^{-\ell+1/2}).$$

- **Equation (B.7)**:

$$1 \to \mathbb{Z} \to B_3 \to \mathrm{SL}(2, \mathbb{Z}) \to 1 \quad \text{is corrected to} \quad 0 \to \mathbb{Z} \to B_3 \to \mathrm{SL}(2, \mathbb{Z}) \to 1.$$

- **Below equation (B.9)**:

  Moreover, σ^4 acts as the conjugation by $T_{w_\circ}$, namely $\sigma^4(x) = T_{w_\circ}^{-1}(x)T_{w_\circ}^1$ for any $x \in \ddot{H}(W)$.

  $\longrightarrow$

  Moreover, σ^4 acts as the conjugation by $T_{w_\circ}^2$, namely $\sigma^4(x) = T_{w_\circ}^{-2}(x)T_{w_\circ}^2$ for any $x \in \ddot{H}(W)$.

- **Equation (C.23)**:

$$(x_m, y_m) = (e^{r+i\varphi^\vee}, e^{\rho+\phi^\vee}) \quad \text{is corrected to:} \quad (x_m, y_m) = (e^{r+i\varphi^\vee}, e^{\rho+i\phi^\vee}).$$