

$$\begin{aligned} \int \frac{\omega}{i} &= \sum_{\bar{i}, \bar{j}, k} (\delta_{\bar{i}\bar{j}} + a_{\bar{i}\bar{j}k} z_k + a_{\bar{i}\bar{j}\bar{k}} \bar{z}_k + [1]) d\bar{z}_i \wedge d\bar{z}_j \\ &= \sum_{\bar{i}, \bar{j}, k} \left\{ \delta_{\bar{i}\bar{j}} + a_{\bar{i}\bar{j}k} (\omega_k + \frac{1}{2} \sum b_{k\ell m} \omega_\ell \omega_m) + a_{\bar{i}\bar{j}\bar{k}} (\bar{\omega}_k + \frac{1}{2} \sum \bar{b}_{k\ell m} \bar{\omega}_\ell \bar{\omega}_m) \right. \\ &\quad \left. + [1] \right\} (d\omega_i + \sum b_{i\ell m} \omega_\ell d\omega_m) \wedge (d\bar{\omega}_j + \sum \bar{b}_{j\ell m} \bar{\omega}_\ell d\bar{\omega}_m) \end{aligned}$$

$$\begin{aligned} \text{First, } & \sum_{\bar{i}, \bar{j}} \delta_{\bar{i}\bar{j}} (d\omega_i + \sum_{\ell, m} b_{i\ell m} \omega_\ell d\omega_m) \wedge (d\bar{\omega}_j + \sum_{\ell, m} \bar{b}_{j\ell m} \bar{\omega}_\ell d\bar{\omega}_m) \\ &= \sum_{\bar{i}} (d\omega_i + \sum b_{i\ell m} \omega_\ell d\omega_m) \wedge (d\bar{\omega}_i + \sum \bar{b}_{i\ell m} \bar{\omega}_\ell d\bar{\omega}_m) \\ &= \sum_{\bar{i}} \left\{ d\omega_i \wedge d\bar{\omega}_i + \sum_{\ell, m} b_{i\ell m} \omega_\ell d\omega_m \wedge d\bar{\omega}_i \right. \\ &\quad \left. + d\omega_i \wedge \sum_{\ell, m} \bar{b}_{i\ell m} \bar{\omega}_\ell d\bar{\omega}_m \right\} + [1] \\ &= \sum_{\bar{i}, \bar{j}} \delta_{\bar{i}\bar{j}} d\omega_i \wedge d\bar{\omega}_j + \sum_{\bar{i}, \ell, m} b_{i\ell m} \omega_\ell d\omega_m \wedge d\bar{\omega}_i \\ &\quad + \sum_{\bar{i}, m, \ell} d\omega_i \wedge \bar{b}_{i\ell m} \bar{\omega}_\ell d\bar{\omega}_m + [1] \\ &= \sum_{\bar{i}, \bar{j}} \delta_{\bar{i}\bar{j}} d\omega_i \wedge d\bar{\omega}_j + \sum b_{j\ell i} \omega_\ell d\omega_i \wedge d\bar{\omega}_j \\ &\quad + \sum \bar{b}_{i\ell j} \bar{\omega}_\ell d\omega_i \wedge d\bar{\omega}_j + [1] \\ &= \sum_{\bar{i}, \bar{j}} \delta_{\bar{i}\bar{j}} d\omega_i \wedge d\bar{\omega}_j + \sum_{\bar{i}, \bar{j}, k} b_{j\bar{k}i} \omega_k d\omega_i \wedge d\bar{\omega}_j \\ &\quad + \sum_{\bar{i}, \bar{j}, k} \bar{b}_{i\bar{k}j} \bar{\omega}_k d\omega_i \wedge d\bar{\omega}_j + [1] \end{aligned}$$

And we have  $\sum_{\bar{i}, \bar{j}, k} a_{\bar{i}\bar{j}k} \omega_k d\omega_i \wedge d\bar{\omega}_j + \sum_{\bar{i}, \bar{j}, k} a_{\bar{i}\bar{j}\bar{k}} \bar{\omega}_k d\omega_i \wedge d\bar{\omega}_j$   
 since other terms contain  $\omega_\ell \omega_k$  or  $\bar{\omega}_\ell \bar{\omega}_k$ .