

$$\frac{\partial \Omega_{i}}{\partial Z_{i}} = \frac{\partial}{\partial Z_{i}} \left(\frac{e^{2i}}{\sum_{i} e^{3i}} \right) = \frac{e^{2i}}{\left(\sum_{i} e^{2i} \right)^{2}} = \frac{e^{2i}}{\left(\sum_{i} e^{3i} \right)^{2}$$

