

$$\begin{aligned}
& \underbrace{\mathfrak{A}_i}_{\mathfrak{A}^J_Q} \mathfrak{A}^j = 0 \\
& \overbrace{\mathfrak{A}^J_Q}^{\alpha} \overbrace{\mathfrak{A}^P_I}^{\alpha} = \overbrace{\mathfrak{A}^{N \sqcup I}_Q}^{\alpha} \overbrace{\mathfrak{A}^P_{N \sqcup J}}^{\alpha} \\
& \overbrace{\mathfrak{A}^J_Q}^{\alpha} \underbrace{\sum_I \mathfrak{A}^P_I}_{= \delta(\mathfrak{A})^\alpha} = \overbrace{\mathfrak{A}^P_{N \sqcup J}}^{\alpha} \underbrace{\sum_I \mathfrak{A}^{N \sqcup I}_Q}_{= \delta(\mathfrak{A})^\alpha} \\
& \overbrace{\mathfrak{A}^J_Q}^{\alpha} \delta(\mathfrak{A}) = \overbrace{\mathfrak{A}^P_{N \sqcup J}}^{\alpha} \delta(\mathfrak{A}) \\
& \underbrace{-\mathfrak{A}_1^m \mathfrak{A}_m^m}_{\mathfrak{A}^J} \ddot{\times} \underbrace{-\mathfrak{A}_q^m \mathfrak{A}_m^m}_{\mathfrak{A}^J} = \underbrace{\mathfrak{A}_1^m \mathfrak{A}_m^m}_{\mathfrak{A}^J} \ddot{\times} \underbrace{\mathfrak{A}_q^m \mathfrak{A}_m^m}_{\mathfrak{A}^J} = \sum_{j_1 < \dots < j_q} \mathfrak{A}_{j_1} \mathfrak{A} \ddot{\times} \mathfrak{A}_{j_q} \mathfrak{A} \overbrace{\mathfrak{A}^J_Q}^{\alpha} = \sum_J \mathfrak{A}_J \overbrace{\mathfrak{A}^J_Q}^{\alpha} \\
& -\mathfrak{A}_j^m \mathfrak{A}_m^i + \mathfrak{A}_j^m \mathfrak{A}_{-m}^i = 0 \\
& -\mathfrak{A}_j^m \mathfrak{A}_m^i \partial_{\mathfrak{A}_1^i} + \mathfrak{A}_j^m \mathfrak{A}_{-m}^i \partial_{\mathfrak{A}_1^i} = 0 \\
& \mathfrak{A}_m^i = \mathfrak{A}_m^i \partial_{\mathfrak{A}_1^i} \\
& \mathfrak{A}_m^i = -\mathfrak{A}_{-m}^i \partial_{\mathfrak{A}_1^i} \\
& -\mathfrak{A}_j^m \mathfrak{A}_m^i + \mathfrak{A}_j^m \mathfrak{A}_m^i = 0 \\
& \overbrace{\mathfrak{A}_1^1 \mid \cdot \mid \mathfrak{A}_1^p \mid -\mathfrak{A}_1^i \partial_{\mathfrak{A}_1^i} \mid \cdot \mid -\mathfrak{A}_1^i \partial_{\mathfrak{A}_1^i}}^{\mathfrak{A}^J} = \overbrace{\begin{array}{c|c|c|c|c|c} \mathfrak{A}_1^1 & \cdot & \mathfrak{A}_1^p & \mathfrak{A}_1^i \partial_{\mathfrak{A}_1^i} & \cdot & -\mathfrak{A}_1^i \partial_{\mathfrak{A}_1^i} \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \mathfrak{A}_n^1 & \cdot & \mathfrak{A}_n^p & -\mathfrak{A}_n^i \partial_{\mathfrak{A}_1^i} & \cdot & -\mathfrak{A}_n^i \partial_{\mathfrak{A}_1^i} \end{array}}^{\mathfrak{A}^J} = \\
& = \overbrace{\begin{array}{c|c|c|c|c|c} \mathfrak{A}_1^1 & \cdot & \mathfrak{A}_1^p & \mathfrak{A}_1^i & \cdot & \mathfrak{A}_1^i \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \mathfrak{A}_n^1 & \cdot & \mathfrak{A}_n^p & \mathfrak{A}_n^i & \cdot & \mathfrak{A}_n^i \end{array}}^{\mathfrak{A}^J} = \sum_I \overbrace{\mathfrak{A}_I^P}^{N \sqcup I} \mathfrak{A}_I^i = \sum_J \overbrace{\mathfrak{A}_J^P}^{N \sqcup J} \mathfrak{A}_J^i
\end{aligned}$$