$$ {}^{r|0}\mathbb{C}_{p|q} \ni z|\zeta = {}^{i}z_{j}\,\big|\,{}^{i}\zeta_{k} = \begin{array}{c|c|c|c|c|c} {}^{1}z_{1} & \cdots & {}^{1}z_{p} & {}^{1}\zeta_{1} & \cdots & {}^{1}\zeta_{q} \\ \hline + & \dagger & + & + & \dagger & + \\ \hline {}^{r|0}z_{1} & \cdots & {}^{r|0}z_{p} & {}^{r|0}\zeta_{1} & \cdots & {}^{r|0}\zeta_{q} \end{array} $$

$$ {}^{r|0}_{\cup}\mathbb{C}_{p|q} \underset{\omega}{\triangle} \mathbb{C} \ni {}^{z|\zeta}\daleth = \sum_{M}^{M \subset r\times q} {}^{z}_{M}\daleth \prod_{i:k \in M} {}^{i}\zeta_{k} $$

$$ \bigwedge_{M}^{\subset r\times q} \;\; \bigvee_{q \geqslant \underline{M}_1 \geqslant \cdots \geqslant \underline{M}_r \geqslant 0}^{\text{part}} \;\; \bigwedge_{i}^{r} \sharp \frac{j}{i{:}j \in M} = \underline{M}_{\sigma(i)} $$

$$ \begin{bmatrix} r+q \\ r \end{bmatrix} = \sharp \text{ partitions } q \geqslant \underline{M}_1 \geqslant \cdots \geqslant \underline{M}_r \geqslant 0 $$

$$ {}^{r|0}_{\cup}\mathbb{C}_{p|q} \underset{\omega}{\triangle} \mathbb{C} \ni {}^{z|\zeta}\daleth = \sum_{M}^{M \subset r\times q} {}^{z}_{M}\daleth \prod_{i:k \in M} {}^{i}\zeta_{k} = \sum_{\mu}^{r\,\overrightarrow{q}} \underbrace{\sum_{\underline{M} = \mu}^{M \subset r\times q} {}^{z}_{M}\daleth \prod_{i:k \in M} {}^{i}\zeta_{k}}_{= {}^{z|\zeta}_{\mu}\daleth} $$

$$ \overbrace{I - z\overset{*}{w} - \zeta\overset{*}{\omega}}^{-\nu} = \overbrace{\underbrace{I - z\overset{*}{w}}_{1/2}\overbrace{I - \underbrace{I - z\overset{*}{w}}_{-1/2}\zeta\overset{*}{\omega}\underbrace{I - z\overset{*}{w}}_{-1/2}}\underbrace{I - z\overset{*}{w}}_{1/2}}^{-\nu} = \overbrace{I - z\overset{*}{w}}^{-\nu} \overbrace{I - \underbrace{I - z\overset{*}{w}}_{-1/2}\zeta\overset{*}{\omega}\underbrace{I - z\overset{*}{w}}_{-1/2}}^{-\nu} $$

$$ = \overbrace{I - z\overset{*}{w}}^{-\nu} \overbrace{I - \underbrace{I - z\overset{*}{w}}_{-1/2}\zeta\overbrace{\underbrace{I - w\overset{*}{z}}_{-1/2}}^{*}\omega}^{-\nu} = \overbrace{I - z\overset{*}{w}}^{-\nu} \sum_{\mu}^{r\mathbb{N}_{+}} \underline{\nu}_{\mu} \; {}^{\overbrace{I - z\overset{*}{w}}^{-1/2}\zeta}\mathcal{K}^{\mu}_{\underbrace{I - w\overset{*}{z}}_{-1/2}\omega} $$