$$ {}_{0}\overset{-1}{\sqsubset}{}^{q^n} = (-1)^n \, q^{n\,(n-1)/2} = (-1)^n \, q^{\left[\begin{smallmatrix} n \\ 2 \end{smallmatrix}\right]} $$

$$ U = 0 \Longrightarrow \sum_{V} {}_{0}\overset{-1}{\sqsubset}{}^{V} \; \overbrace{|X|}^{\,n - \dim V} = \lrcorner^{0}\,(x) = \sharp \frac{\daleth \in {}^{\mathbb{K}^n} \triangle X}{\ker \daleth = 0} = \sharp^{\,q^n} \blacktriangle X = \prod_{i}^{n} \left(x - q^i\right) $$

$$ x = 0 \Longrightarrow {}_{0}\overset{-1}{\sqsubset}{}^{q^n} = \prod_{i}^{n} \left(-q^i\right) = (-1)^n \, q^{0 + 1 + \cdots + (n-1)} = (-1)^n \, q^{n\,(n-1)/2} $$

$$ {}_{U}\overset{-1}{\sqsubset}{}^{V} = {}_{0}\overset{-1}{\sqsubset}{}^{V \ulcorner U} = (-1)^{\dim V - \dim U} \, q^{\left[\begin{smallmatrix} \dim V - \dim U \\ 2 \end{smallmatrix}\right]} $$