$$\begin{array}{c|c} a & b \\ \hline c & d \end{array} \in {}^{n}_{1:1}\mathbb{H}_n^{\cup}$$

$$\frac{1-t}{2} = s+n$$

$$\overbrace{\begin{array}{c|c} a & b \\ \hline c & d \end{array} \overset{s}{\ltimes} \daleth}^{z} = \overbrace{a+zc}^{-1}\underbrace{b+zd}\daleth^{\,a+zc}\Delta^{-1-2n-s} = \overbrace{a+xc}^{-1}\underbrace{b+xd}\daleth^{\,a+xc}\Delta^{(1+t)/2-n}$$

$$\daleth \overset{s}{\bigstar} \text{ʇ} = \int_{dz}^{{}^{n}\mathbb{H}_n^{\cup}} {}^{z}\bar{\daleth} \int_{dw}^{{}^{n}\mathbb{H}_n^{\cup}} {}^{w}\text{ʇ}^{\,e-z\overset{*}{w}} \overline{\Delta}^{s} = \int_{dz}^{{}^{n}_{2}\mathbb{R}_n^{\cup}} {}^{z}\bar{\daleth} \int_{dw}^{{}^{n}_{2}\mathbb{R}_n^{\cup}} {}^{w}\text{ʇ}^{\,e-z\overset{*}{w}} \overline{\Delta}^{(1-t)/2-n}$$

$$\ell_i = \lambda_i + n - i + 1$$

$$\frac{\Gamma_{\ell_i - s - n + 1}}{\Gamma_{\ell_i + s + n}} = \frac{\Gamma_{\ell_i + (t-1)/2 + 1}}{\Gamma_{\ell_i + (1-t)/2}} = \frac{\Gamma_{\lambda_i + n - i + 1 + (1+t)/2}}{\Gamma_{\lambda_i + n - i + 1 + (1-t)/2}}$$