$$S_{\lambda} = n_{\pm}^{\lambda} = \frac{1}{\sqrt{2}} \left(\frac{1}{\pm 1} \right)$$

$$S_{\lambda}\left(\frac{1}{1+\lambda}\right) = \sqrt{1}\left(\frac{1}{1+\lambda}\right)$$
 $\sqrt{\frac{1}{1+\lambda}}$ changes

$$S_{1} \gamma_{1}^{2} = \frac{1}{2} \left(\chi^{2} \right)$$

 $S_{1} \gamma_{1}^{2} = -\frac{1}{2} \left(\chi^{2} \right)$

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