$$\mathcal{S}\gamma = \overbrace{{}_{\sharp}\gamma\chi_{\Omega}}^{\sharp} = \chi_{\Omega}^{\sharp} \bowtie \gamma = \Delta^{-d/r} \bowtie \gamma$$

$${}^{z}\overbrace{\mathcal{S}\gamma} = {}^{z}\overbrace{\gamma \bowtie \Delta^{-d/r}} = \int_{dy}^{iX} {}^{z-y}\Delta^{-d/r\ y}\gamma = {}^{z}\overbrace{\mathcal{S}_{\overline{iX}}\gamma}$$

$${}^{z}\mathcal{S}_{y} = {}^{z-y}\Delta^{-d/r}$$